

SEQUENCE LISTING

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<210> 15

<211> 1158

<212> DNA

<213> Homo sapiens

<400> 15

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<210> 16

<211> 1880

<212> DNA

<213> Homo sapiens

<400> 16

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<210> 17

<211> 1190

<212> DNA

<213> Homo sapiens

<400> 17

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<210> 18

<211> 2173

<212> DNA

<213> Homo sapiens

<400> 18

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<210> 19

<211> 1364

<212> DNA

<213> Homo sapiens

<400> 19

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<211> 1082

<212> DNA

<213> Homo sapiens

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<210> 21

<211> 1268

<212> DNA

<213> Homo sapiens

<400> 21

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<210> 22

<211> 1204

<212> DNA

<213> Homo sapiens

<400> 22

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<210> 23

<211> 1728

<212> DNA

<213> Homo sapiens

<400> 23

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<210> 24

<211> 895

<212> DNA

<213> Homo sapiens

<400> 24

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gcgcggagga cagcgtgggc tccagctctg tcaccgttgt cctgctgctg ctgctgctcc 180
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actaccacc ggcccgcccta ggtgcgcgc cagcgggccc cagcggcgcg ctgctctggg 300
ccagccccc aggtcgtctg ctgcaggccc gagctgagct ggggtccaca gacaatgacc 360

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ttgagcgaca ggaggatgag caggacacag actatgacca cgtcgcggat ggtggcctgc 420
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ccgtgcgggc tgaggaagcc agagacagtg acacggaggg cgacctgggc ctcggtccc 540
caggaccagc gagcgagggg gacagtgtct aggccctgct gagtgaacctg cagcctttg 600
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ccgcactgta gaggccggtc ttggtgtccc atccctgtca cagccgtca ctcccgtgc 720
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actgtcacc cctaccagtt cccaagtcca tgtgtacccc gctcaccacg ggaacggccc 840
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```

<210> 25

<211> 927

<212> DNA

<213> Homo sapiens

<400> 25

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gaaacaagaa aaacagctgg aattagaaat taagaaaatg gccagattg gtaataagga 360
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gaagatggct ggagcaatgt ctaccacagc aaaaacaatg caggcagtta acaagaagat 540
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agaagaaagc caggatattg tgaatcaagt tcttgatgaa attggaattg aaatttctgg 720
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tacaatctca gatgaagaga ttgaacggca actcaaggct ttaggagtag attagtcaaa 840
agaagtcata ctattttgct tacttataat tatgtagtat aaaccaagca cagtgcagat 900
ttcttttaca aaacacatgt attttgc 927

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<210> 26

<211> 468

<212> DNA

<213> Homo sapiens

<400> 26

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actgatgatg tgttggttgc atggtaatcc tgctcagtag gagaggaacc gcaggttcag 180
acatttgggt tatgtgcttg gctgaggagc caatggggcg aagctatcat ctgtgggatt 240
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agcctcggtt ggctcggat agccgggtcc ccgctgtcc ccgcccggcg gccgcccccc 360
cctccacgcg ttccgcgcgc gcgggagggc gcgtgccccg ccgcgcgccg ggaccggggg 420
ccggtgcgga gtgcccttcg tcctgggaaa cggggcgcgg ccggaag 468

```

<210> 27

<211> 488

<212> DNA

<213> Homo sapiens

<400> 27

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ggcttctctga ccttgggcta cggctgacgg ttttttgtgg tgtactccgt gccatcatgt 60
ccgtcctgac gccgtgctg ctgcgggggt tgacaggctc ggcccggcgg ctcccagtc 120
cgcgcgccaa gatccattcg ttgcgcgcgg aggggaagct tgggatcatg gaattggccg 180
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ccagcccccac cggcccatcc tggtcattgt actgcatttg tggccggcct cccctggatc 360
atgtcattca attccagtc cctcttctgc aatcatgacc tcttgatgtc tccatggtga 420

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cctccttggg ggtcactgac cctgcttggg ggggtccccc ttgtaacaat aaaatctatt 480
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<210> 28

<211> 1502

<212> DNA

<213> Homo sapiens

<400> 28

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gcaccgcgcc	cgccctcgca	ggtcttttta	cattgagaaa	actaaaatcc	agagatctgc	180
cgacacccca	ggccatcgag	ccccaggcca	tcgtgcagca	gggccagacc	cccagtcgaa	240
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ggacaccgtg	caggtggagc	tcattccgga	gaagaagggc	ctcttccctga	agcatgtgga	360
gtatgaggtt	tccagccagc	gcttcaagtc	ctcgggtatac	agacgggtaca	atgacttcgt	420
ggtcttccag	gagatgctcc	tgcaacaagt	cccctaccgt	atggtgcctg	ccctgccacc	480
caagagaatg	ctgggagctg	acagggagtt	catcgaggcc	aggaggagag	ccctgaagcg	540
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cctgtccttc	agcggctcgg	atgtgcagaa	caagttaaag	gagtcagcac	agtgcgtcgg	660
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cgacctgagg	cccgaagctca	gctgcctctt	tgcgggacca	cacagcacc	tgacccacc	1440
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ct						1502

<210> 29

<211> 503

<212> DNA

<213> Homo sapiens

<400> 29

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atgattatct	acttatctaa	ttaattttatt	ttgagatgga	gtctcactct	gtcaccagg	180
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gacctcgggt	gatctgcctg	cctcggcctc	ccaaagtgt	gggattacag	gcgtgagcca	420
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<210> 30

<211> 514

<212> DNA

<213> Homo sapiens

<400> 30

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ctggctgtaa	gtggtctccg	tcctgtccag	gcccaggccc	agagcgattg	cagttgctct	120
acggtgagcc	cgggcgtgct	ggcagggatc	gtgatgggag	acctggtgct	gacagtgtctc	180

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attgccctgg cegtgtactt cctgggcccgg ctgggtccctc gggggcgagg ggctgcggag 240
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cagaggctcg atgtctacag cgacctcaac acacagaggc cgtattacaa atgagcccga 360
atcatgacag tcagcaacat gatacctgga tccagccatt cctgaagccc accctgcacc 420
tcattccaac tcctaocgcg atacagaccc acagagtgcc atccctgaga gaccagaccg 480
ctccccaata ctctcctaaa ataaacatga agct 511

```

<210> 31

<211> 581

<212> DNA

<213> Homo sapiens

<400> 31

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ggtggtgatg gaggtgggtgg tgggtggagggt gacagtgggtg atgctgggtg tggagggtgg 120
ggagggtactg gaggtcatgg tgggtgggtgga ggtgatagtg gtgaagggtga tggagggtgg 180
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tttaggaagc ctagggtggaa ggggtggcttg aaccaggag gtcagggtcg cagtgaagctc 360
tgactgtgcc actgcactcc aaccagggtg acggagcgag accctgtctc ttaaaatatt 420
ttttttacag tgcattttca tgtgtttcaa tctcctagtg tccctgccaa aaatatattt 480
atctgaatca aatcatgggg aaattatgag acaaatcagg tcaaaagaca gtttacaaaa 540
cagttggcct gaacttttca aaactgtcaa catgttcaaa g 581

```

<210> 32

<211> 550

<212> DNA

<213> Homo sapiens

<400> 32

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atgtctccat ggtgacctcc ttgggggtca ctgacctgc ttggtggggg ccccttgtg 480
acaataaaat ctattttaaac tttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaag 550

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<210> 33

<211> 1344

<212> DNA

<213> Homo sapiens

<400> 33

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aagccccaga ggggcaatga ctggtcacac ctttgagcaa aaagaacaaa ggagaagaaa 180
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acaaaggcct cccagccccc atcgagaaaa ccatctccaa aaccaaaggg cagccccgag 900
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<210> 34

<211> 496

<212> DNA

<213> Homo sapiens

<400> 34

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gtttgagcct ccacaaataa tgcaaccaag ttttacattt ttaacagccc ttctacatac 180
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aatgcaattc atgaggacca cttagtctct acatgaatct ggttgctaac atttctatta 420
tattgtgaca atgactcccg actgttattc tctgtgagaa atggggggag taaattctta 480
ataaaagact tagaaa

```

<210> 35

<211> 478

<212> DNA

<213> Homo sapiens

<400> 35

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catgggcctg ctgctgggtg cagcgtggcc gcctcctgag agttggccct cccttgtgcc 420
actgccaggg gaggaaggcc cttgatgttc cagacaataa taaatgcgcc tgtgactg 478

```

<210> 36

<211> 811

<212> DNA

<213> Homo sapiens

<400> 36

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ttgtcctgat actgctggtg ctgggctggg tccagccttc cctgggcaag gaatcccg 120
ccaagaaatt ccagcggcag catatggact cagacagttc cccagcagc agctccacct 180
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cctttgtgca cgagccctg gtatgtctc agaatgtctg ttccaggaa aaggtcacct 300
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gcctgacaaa cggtccagg taccccaact gtgcataccg gaccagcccg aagagagaca 420
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gagtgggttg tgaggtgggc cccatgttaa cccctccact ctttctttca ataaaacgcg 720
gttgnccccc caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa g

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<210> 37
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 37
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<210> 38
 <211> 670
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 <213> Homo sapiens

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 <212> DNA
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<400> 39
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<210> 40
 <211> 847

<212> DNA

<213> Homo sapiens

<400> 40

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847

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<210> 41

<211> 764

<212> DNA

<213> Homo sapiens

<400> 41

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<210> 42

<211> 788

<212> DNA

<213> Homo sapiens

<400> 42

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 <211> 575
 <212> DNA
 <213> Homo sapiens

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<210> 44
 <211> 1290
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<400> 44
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<210> 45
 <211> 814
 <212> DNA
 <213> Homo sapiens

<400> 45
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<210> 46

<211> 959

<212> DNA

<213> Homo sapiens

<400> 46

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<210> 47

<211> 1174

<212> DNA

<213> Homo sapiens

<400> 47

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<211> 1157

<212> DNA

<213> Homo sapiens

<400> 48

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<211> 2193

<212> DNA

<213> Homo sapiens

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<210> 50
 <211> 651
 <212> DNA
 <213> Homo sapiens

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<400> 50
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<210> 51
 <211> 1204
 <212> DNA
 <213> Homo sapiens

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<400> 51
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<210> 52
 <211> 1541
 <212> DNA
 <213> Homo sapiens

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<400> 52
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<210> 53

<211> 2384

<212> DNA

<213> Homo sapiens

<400> 53

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<210> 54

<211> 1254

<212> DNA

<213> Homo sapiens

<400> 54

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<210> 55

<211> 1127

<212> DNA

<213> Homo sapiens

<400> 55

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1127

<210> 56

<211> 968

<212> DNA

<213> Homo sapiens

<400> 56

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<210> 57

<211> 1002

<212> DNA

<213> Homo sapiens

<400> 57

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<210> 58

<211> 691

<212> DNA

<213> Homo sapiens

<400> 58

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<210> 59

<211> 943

<212> DNA

<213> Homo sapiens

<400> 59

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<210> 60

<211> 2399

<212> DNA

<213> Homo sapiens

<400> 60

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<210> 61

<211> 1516

<212> DNA

<213> Homo sapiens

<400> 61

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ggcttcgagt gaccocgggtg ccgaggagcg ggaagagttg ctggggccca ctgctcagtg 60
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gcttcaggcc caggacgagg agggaggcgg ccattgtccc gagcgccga agcaggagat 180
gtcctcagc ctgaagccct cggaggcccc tgaactggat gaggacgagg gctttggcga 240
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acaggaggag caccagaaat gtcagcagcc caggacacc agcccttgg tcttggaggg 540
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tccctgtgta ttctcc 1516

```

<210> 62

<211> 933

<212> DNA

<213> Homo sapiens

<400> 62

```

ctctagcagt ggggtgaaggc ctgtgagtga ggaatgcctc tcaccagctg tgctgagct 60
gcagcactcc agccactgct gtctccttag ctgctcacat atggatactt tcacagttca 120
ggattccaact gcaatgagct ggtggaggaa taatttctgg atcatcttag ctgtggtcat 180
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acgaggcaag aaatgggaaa ttgccaaagg cctgaaacac aagcaagtag atgaagaaaa 300
gatgtatgag aatgttctta atgagtcgcc agttcaatta ccgcctctgc caccgaggaa 360

```

```

ttggcctttct ctagaagact cttccccaca ggaagcccca agtcagccgc ccgctacata 420
ctcactggta aataaagtta aaaataagaa gactgtttcc atcccaagct acattgagcc 480
tgaagatgac tatgacgatg ttgaaatccc tgcaaatact gaaaaagcat ctttttgaag 540
cagccatttc ttcttttttg caaaactgaa gaggggtcac acaacttatt ttaaaacaat 600
caagaatggt tgaacttcag taggtctctg ggcctgaaa gccagtgggtg attttatgaa 660
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ctgttgagga aactttccat gggaaggacc acggggctcc atggctccca cctgtgggaa 840
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```

<210> 63

<211> 1232

<212> DNA

<213> Homo sapiens

<400> 63

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ccctggctgc ccaagagggtg cagcagctct cccactgcac gactgtcccc gtgggagcct 180
ccgtcaacat cacctgctcc accagcgggg gctgctgtgg gatctacctg aggcagctcg 240
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ggttccgggg ccgcatcgac ttctcagggg cccaggacaa cctgactatc accatgcacc 360
gcctgcagct gtcggacact ggcaacctaca cctgccaggc catcacggag gtcaatgtct 420
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cggacgcccc accaagggcc tctgccctcc ctgcccacc gacaggctcc gccctccctg 540
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ccaaccccca ggcagcccgg cagaggacgg gaggagacca gtccccacc cagccgtacc 1200
agaaataaag gcttctgtgc ttcccttttt tt 1232

```

<210> 64

<211> 1207

<212> DNA

<213> Homo sapiens

<400> 64

```

attcaccaac tggacaaggc tttggcaaa ctggggattg gccagctgac tgctcaggaa 60
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cgaacttggc tgggagaatg gctgcagatt tcctgcagcc tgaaagaagc tgagctgtct 180
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agaactgaaa caaacccctc tgctaggggt ggtccgtgtg aggtgtcatc ctgtccccct 480
cataattact aatagctgga actggcagca gcctctactg ggcttttact gtgatgtgtt 540
caagtcatgt cctaggagtc agcttttgcc aggggatctt tatttggtag cactgtcact 600
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caaaccctct gaacaccttt ttctgatggg taacttgcag gaatattcta ttggaaaaga 840
taacaggaag tacaagtgtc tcttgacccc ttctcaatg tttctagcct tcactctcca 900
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```

```

tgatgcagca gtccaactgt aactgacagt ggctgccttc tctgggccaat ggatcacacc 1020
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gttggggttta gcttttgtgt gtgcatcagt gacttagagt tctgtaataa cttattgtaa 1140
atgcatggaag cactgttttt aaacccaagt aaagactgct tgaaacctgt tgatggaaat 1200
gactaag                                     1207

```

<210> 65

<211> 1279

<212> DNA

<213> Homo sapiens

<400> 65

```

tctgaagagt gcagctgcct gaaccgagcc ctgccgaaca gctgagaatt gcactgcaac 60
catgagtgag aacaataaga attccttgga gagcagccta cggcaactaa aatgccattt 120
cacctggaac ttgatggagg gagaaaactc cttggatgat tttgaagaca aagtatttta 180
ccggactgag tttcagaatc gtgaattcaa agccacaatg tgcaacctac tggcctatct 240
aaagcacctc aaagggcaaa acgaggcagc cctggaatgc ttacgtaaag ctgaagagtt 300
aatccagcaa gagcatgctg accaggcaga aatcagaagt ctggtcacct ggggaaacta 360
tgccctgggtc tactatcaca tgggccgact ctcagacgtt cagatttatg tagacaaggt 420
gaaacatgtc tgtgagaagt tttccagtc ctatagaatt gagagtccag agcttgactg 480
tgaggaaggg tggacacggg taaagtgtgg aggaaccaaa atgaaagagc gaagggtgtc 540
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ttcagtaaag agcttactcc tgtagcgaaa caactgctcc atctgcggtg tggcaacttt 1200
cagctgtacc aaatgaagtg tgaagacaag gccatccacc actttataga ggggtgtaaaa 1260
ataaaccaga aatcaaggg                                     1279

```

<210> 66

<211> 938

<212> DNA

<213> Homo sapiens

<400> 66

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atccagcatc tcagcagaaa actgcctgac atgaaaagtc ccctgaggaa ctgcatctgc 60
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aggcctgcct tcttctggaa ctggaagtgg gctatcacca tgggcaagcc cttgggtgca 180
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tgtgcttggt gccccaggaa cagccagaga ggacagtgcc ccaggaacag ccagagagga 840
cagtgcctac tcacttcttg ttggcagcct cctgtgcagg aagtgccagc cgggcctoga 900
cgcaccagct ggctgtgggt cctgaggagg ggcgggag                                     938

```

<210> 67

<211> 1369

<212> DNA

<213> Homo sapiens

<400> 67

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gccctcatga agcaatacca ggttcagttc tggaagatgc taattctcat caaagaggac 120
tactttccca gaattgaagc tatcacaagc tcaggacaga tgggtctcct catacgcctc 180
aagcagttct tggagaaatg tttgcaacac aaggacattc ctgtcccca gggctttctg 240
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gaggcaataa taaaggaact gaagacagct gtatttgga gaagtcatgt cagattcaga 360
aatttgccat tatgtatttt tatgtattta tgccttgtga ctaggagagg agattttcat 420
gggtcacaaa attcttgagg gtcccttagt agatttggt gttccttaag agatccacgt 480
gataaaataa atggagttgg ctttcttggt ttttgcaaaa gtgataaaag gtcttttagca 540
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```

<210> 68

<211> 857

<212> DNA

<213> Homo sapiens

<400> 68

```

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ccaaagtcac cgtcaagggt tattttgacc tacgaattgg agatgaagat gtaggccggg 180
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ctgcactggc cccggtgctg gcactctggt gagcggaccc actccctca cattccacag 780
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ggtttttttt tttttttt 857

```

<210> 69

<211> 824

<212> DNA

<213> Homo sapiens

<400> 69

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ggatgctgcg cctctccgaa cgcaacatga aggtgctcct tgccgcgcgc ctcatcgcg 60
ggtccgtctt cttctgctg ctgccgggac cttctgcggc cgatgagaag aagaaggggc 120
ccaaagtcac cgtcaagggt tattttgacc tacgaattgg agatgaagat gtaggccggg 180
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ctacaggaga gaaaggattt ggctacaaaa acagcaaatt ccactgtgta atcaaggact 300
tcatgatcca gggcggagac ttcaccaggg gagatggcac aggaggaaag agcatctacg 360
gtgagcgctt ccccgatgag aacttcaaac tgaagcacta cgggcctggc tgggtgagca 420

```

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tgGCCAACgc agGcAAAGac accAACGgct cccagttctt catcAcgaca gtCAAGacag 480
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ggaaggtgga gagcACCAag acagAcagcc gggataaacc cctgaaggat gtgatcatcg 600
cagactgcgg caagatcgag gtggAGaagc cctttgccat cGcCAaggag tagggcAcag 660
ggacatcttt ctttgagtga ccgtctgtgc aggccctgta gtccgccaca gggctctgag 720
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```

<210> 70

<211> 928

<212> DNA

<213> Homo sapiens

<400> 70

```

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taaaagtgcc catgatgaat agcaAGaagt accctgtggc ccatttcatt gaccaaactt 180
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ccatggccct gccatgctct ccaaaccact ttttgcaagt ttctctagtt caagttcacc 900
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```

<210> 71

<211> 672

<212> DNA

<213> Homo sapiens

<400> 71

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caccaccacc aaaaaaaaaa aaagccctca gaaaatttct cacaaataag gcaactaatg 60
cctgatattc caaaatcctt tacaaaagga gatagttcta gtcaaggagt tttgggtatg 120
ttactttttt ttcttctttt tcttttcact tgctccatc ttaagtgcaa tttcttcagc 180
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gattttacca agtaaaacaa agaatatatg tttacaaaag aatatatgtt taaggcagtt 360
aacttcagag tattcttata attgaataat tgaaagggtg tcacagtata aaatataaaa 420
acacttgctt aaagcagtta gaaatttctt cagattaaga taaaacaaat cataaaatac 480
tttataatatt agtacaagta tacataaaaa tggcataaat ggcataattg aaccaattac 540
tggaattcaac tatattaaga ctatttcctt aaatcctact tcagactaaa ttattttacc 600
tacattcttt tccatatttt ggaacttctg agtcattatt ttccatcttg cacattaataa 660
taattttaaaa tt 672

```

<210> 72

<211> 518

<212> DNA

<213> Homo sapiens

<400> 72

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caagaagaca gcgacagctg tggcgcactg caaacgcggc aatggtctca tcaagggtgaa 120
cgggcggccc ctggagatga ttgagccgcg cacgctacag tacaagctgc tggagccagt 180
tctgcttctc ggcaaggagc gatttgctgg tgtagacatc cgtgtccgtg taaagggtgg 240
tggtcacgtg gccagattt atgctatccg tcagtccatc tccaaagccc tgggtggccta 300
ttaccagaaa tatgtggatg aggcttccaa gaaggagatc aaagacatcc tcatccagta 360

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<210> 73
<211> 1519
<212> DNA
<213> Homo sapiens

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<210> 74
<211> 760
<212> DNA
<213> Homo sapiens

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<210> 75
<211> 344
<212> DNA
<213> Homo sapiens

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<400> 75

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<210> 76

<211> 3684

<212> DNA

<213> Homo sapiens

<400> 76

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<210> 77

<211> 2817

<212> DNA

<213> Homo sapiens

<400> 77

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<210> 78

<211> 2066

<212> DNA

<213> Homo sapiens

<400> 78

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<210> 79

<211> 2044

<212> DNA

<213> Homo sapiens

<400> 79

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<210> 80

<211> 1035

<212> DNA

<213> Homo sapiens

<400> 80

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<210> 81

<211> 1113

<212> DNA

<213> Homo sapiens

<400> 81

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<210> 82

<211> 1574

<212> DNA

<213> Homo sapiens

<400> 82

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<210> 83

<211> 1817

<212> DNA

<213> Homo sapiens

<400> 83

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<210> 84

<211> 1079

<212> DNA

<213> Homo sapiens

<400> 84

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<210> 85

<211> 1011

<212> DNA

<213> Homo sapiens

<400> 85

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<210> 86

<211> 549

<212> DNA

<213> Homo sapiens

<400> 86

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<210> 87

<211> 1539

<212> DNA

<213> Homo sapiens

<400> 87

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<210> 88

<211> 1161

<212> DNA

<213> Homo sapiens

<400> 88

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<210> 89

<211> 1466

<212> DNA

<213> Homo sapiens

<400> 89

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<210> 90

<211> 826

<212> DNA

<213> Homo sapiens

<400> 90

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<210> 91

<211> 395

<212> DNA

<213> Homo sapiens

<400> 91

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<210> 92

<211> 772

<212> DNA

<213> Homo sapiens

<400> 92

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<210> 93
<211> 602
<212> DNA
<213> Homo sapiens
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<400> 93
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aa 602
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<210> 94
<211> 1085
<212> DNA
<213> Homo sapiens
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```

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<210> 95
<211> 1143
<212> DNA
<213> Homo sapiens
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<210> 96

<211> 2047

<212> DNA

<213> Homo sapiens

<400> 96

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<210> 97

<211> 2082

<212> DNA

<213> Homo sapiens

<400> 97

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<210> 98

<211> 1736

<212> DNA

<213> Homo sapiens

<400> 98

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<210> 99

<211> 1379

<212> DNA

<213> Homo sapiens

<400> 99

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<210> 100

<211> 1309

<212> DNA

<213> Homo sapiens

<400> 100

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<210> 101

<211> 1322

<212> DNA

<213> Homo sapiens

<400> 101

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<210> 102

<211> 1908

<212> DNA

<213> Homo sapiens

<400> 102

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<210> 103

<211> 1598

<212> DNA

<213> Homo sapiens

<400> 103

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<210> 104

<211> 1565

<212> DNA

<213> Homo sapiens

<400> 104

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<211> 2314

<212> DNA

<213> Homo sapiens

<400> 105

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<211> 1259

<212> DNA

<213> Homo sapiens

<400> 106

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<210> 107

<211> 1990

<212> DNA

<213> Homo sapiens

<400> 107

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<211> 1021

<212> DNA

<213> Homo sapiens

<400> 108

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<210> 109

<211> 1603

<212> DNA

<213> Homo sapiens

<400> 109

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<210> 110

<211> 1456

<212> DNA

<213> Homo sapiens

<400> 110

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<210> 111

<211> 1615

<212> DNA

<213> Homo sapiens

<400> 111

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<210> 112

<211> 621

<212> DNA

<213> Homo sapiens

<400> 112

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<210> 113

<211> 1331

<212> DNA

<213> Homo sapiens

<400> 113

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<210> 114

<211> 1590

<212> DNA

<213> Homo sapiens

<400> 114

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<210> 115

<211> 2410

<212> DNA

<213> Homo sapiens

<400> 115

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<210> 116

<211> 984

<212> DNA

<213> Homo sapiens

<400> 116

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<210> 117

<211> 1048

<212> DNA

<213> Homo sapiens

<400> 117

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aagctcgcg	cccggggcgc	catgcgctgg	gaacgggggtg	cgcaggttct	acgagaggac	180

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<210> 118

<211> 1965

<212> DNA

<213> Homo sapiens

<400> 118

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<210> 119

<211> 574

<212> DNA

<213> Homo sapiens

<400> 119

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<210> 120

<211> 1334

<212> DNA

<213> Homo sapiens

<400> 120

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<210> 121

<211> 989

<212> DNA

<213> Homo sapiens

<400> 121

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<210> 122

<211> 2085

<212> DNA

<213> Homo sapiens

<400> 122

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<210> 123

<211> 1816

<212> DNA

<213> Homo sapiens

<400> 123

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<210> 124

<211> 2222

<212> DNA

<213> Homo sapiens

<400> 124

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<210> 125

<211> 1252

<212> DNA

<213> Homo sapiens

<400> 125

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<210> 126

<211> 981

<212> DNA

<213> Homo sapiens

<400> 126

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<210> 127

<211> 1343

<212> DNA

<213> Homo sapiens

<400> 127

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<400> 131

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<212> DNA

<213> Homo sapiens

<400> 132

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<211> 1779

<212> DNA

<213> Homo sapiens

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<211> 2108

<212> DNA

<213> Homo sapiens

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<210> 137

<211> 1362

<212> DNA

<213> Homo sapiens

<400> 137

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<210> 138

<211> 1505

<212> DNA

<213> Homo sapiens

<400> 138

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<210> 139

<211> 1579

<212> DNA

<213> Homo sapiens

<400> 139

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<210> 140

<211> 1641

<212> DNA

<213> Homo sapiens

<400> 140

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<210> 141

<211> 1492

<212> DNA

<213> Homo sapiens

<400> 141

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<210> 142

<211> 1816

<212> DNA

<213> Homo sapiens

<400> 142

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<210> 143

<211> 2230

<212> DNA

<213> Homo sapiens

<400> 143

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<210> 144
 <211> 1025
 <212> DNA
 <213> Homo sapiens

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<400> 144
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<210> 145
 <211> 994
 <212> DNA
 <213> Homo sapiens

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<400> 145
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<210> 146
 <211> 1913
 <212> DNA
 <213> Homo sapiens

<400> 146

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<210> 147

<211> 982

<212> DNA

<213> Homo sapiens

<400> 147

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<210> 148

<211> 1078

<212> DNA

<213> Homo sapiens

<400> 148

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<210> 149

<211> 1310

<212> DNA

<213> Homo sapiens

<400> 149

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<210> 150

<211> 858

<212> DNA

<213> Homo sapiens

<400> 150

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gcttccccat ccgcgtaacc ctgcaatata tgagccaggg gaacgtggtg ttcaaggact 180

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858

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<210> 151

<211> 1154

<212> DNA

<213> Homo sapiens

<400> 151

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<210> 152

<211> 2290

<212> DNA

<213> Homo sapiens

<400> 152

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<210> 153

<211> 446

<212> DNA

<213> Homo sapiens

<400> 153

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<210> 154

<211> 2732

<212> DNA

<213> Homo sapiens

<400> 154

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<210> 155

<211> 582

<212> DNA

<213> Homo sapiens

<400> 155

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aatacagaaa ttagccgggt gtggtggtg gtgtctgtag tcccagctac tcgggaggct 480
gagacaggag aattgcttga accggagagg tggaggctgc agtgagctaa gatcatgcca 540
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<210> 156

<211> 731

<212> DNA

<213> Homo sapiens

<400> 156

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cgcagctcag taagaaaatg cttttgagct ataaccagg ttgagtacca ttggtacatt 180
agaatcacag agtcagattt tactttttgg ggcagtggta ggtgtggata aagtatctcc 240
agtccagatt tcttgactg gtgctattgg gtttgcggt ggagatttat gacctcagg 300
ataataaccg gaagaacagt gagtagaaag ctcagggata tgagttttgc tgtatatcaa 360

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agctgtgtga ctttgggaaa attacttaac ctttctgggc cttagctttg ctacctattc 420
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atagtatatg ggaaggtgtt taaaaagttg tgagttctac acgacttaaa aatgccagta 540
ttatgaatgc aaccattctt tgttgtcatt tgggtagtcg tggatagcgt ggtggttaga 600
gagccactat cggagcaaga ctgttccaga gggtaaaaca cacgcgtgcc tgtagagcag 660
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<210> 157

<211> 868

<212> DNA

<213> Homo sapiens

<400> 157

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<210> 158

<211> 857

<212> DNA

<213> Homo sapiens

<400> 158

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<210> 159

<211> 1456

<212> DNA

<213> Homo sapiens

<400> 159

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agacaccaca gctgatttct tctgaccac tatgccact gactccctca gtgtttccac 180

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ggataatgat aaagtccaga agtgcagcca ctatctatct tctgaagaaa tcaacttctgg 360
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<210> 160

<211> 585

<212> DNA

<213> Homo sapiens

<400> 160

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aaaaattttc gaagatatac caacgcttga agacctggct gaaactctta aaaaagaaaa 180
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cccatctccc aagacctcat tgtcagctcc acccaacagt tcttcaactg agaaccgaa 480
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<210> 161

<211> 592

<212> DNA

<213> Homo sapiens

<400> 161

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gttgagtatg atctgaacca gaaataaagg ctttccccag ttctttaaat tcattcagtt 180
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<210> 162

<211> 3760

<212> DNA

<213> Homo sapiens

<400> 162

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gaatgtatat acatgtcacc atggattgga actgttttgc atatcagggg aatcatagcc 240
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<210> 163
 <211> 766
 <212> DNA
 <213> Homo sapiens

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<400> 163
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<210> 164
 <211> 3999
 <212> DNA
 <213> Homo sapiens

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<400> 164
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<210> 165

<211> 1474

<212> DNA

<213> Homo sapiens

<400> 165

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<210> 166

<211> 366

<212> DNA

<213> Homo sapiens

<400> 166

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<210> 167

<211> 1926

<212> DNA

<213> Homo sapiens

<400> 167

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<210> 168
 <211> 1278
 <212> DNA
 <213> Homo sapiens

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 <211> 325
 <212> DNA
 <213> Homo sapiens

<400> 169
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<210> 170
 <211> 594
 <212> DNA
 <213> Homo sapiens

<400> 170
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<210> 171

<211> 1061
 <212> DNA
 <213> Homo sapiens

<400> 171
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<210> 172
 <211> 347
 <212> DNA
 <213> Homo sapiens

<400> 172
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<210> 173
 <211> 694
 <212> DNA
 <213> Homo sapiens

<400> 173
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<210> 174
 <211> 771
 <212> DNA
 <213> Homo sapiens

<400> 174

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<210> 175

<211> 552

<212> DNA

<213> Homo sapiens

<400> 175

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<210> 176

<211> 401

<212> DNA

<213> Homo sapiens

<400> 176

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<211> 396

<212> DNA

<213> Homo sapiens

<400> 177

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<210> 178

<211> 949

<212> DNA

<213> Homo sapiens

<400> 178

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ccatgttcca ctgcctcttt gccatcggct cccagctgtc tcctgaacag ggaagctcag 420
gcattgagat gctggagaca gacacattca aattgcactg ctaccagaca ctgacaggga 480
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gaacttttgg acctgggtca taggctgaac ctgttatgga ccccaaatt ctgagagttc 720
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tgctctttcc ttctgtatat gccatggtct tactttccaa ctctgtacag atttatttat 900
ggaggagcta ggtccataaa tgttgtaata aatattcctt tgatcttgg 949

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<210> 179

<211> 1067

<212> DNA

<213> Homo sapiens

<400> 179

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gatggcagat tttttgaaag gactgcctgt ctacaacaaa agcaatttta gtcgatttca 180
cgcggactcc gtgtgcaaag cctcgaaccg acggccctca gtctacctgc ctacccgcga 240
gtaaccgtct gtaacagatca tcgtgacaga aaagacaaac atcctcctgc gctacctgca 300
tcagcaatgg gacaaaaaga acgctgccaa gaagagagac caggagcaag tggagctgga 360
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<210> 180

<211> 675

<212> DNA

<213> Homo sapiens

<400> 180

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ggcacagcca ggggcctgcc gccgagacgg ctactggttc ctaaagctac tgcaggcaga 60
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ctctgaagaa gtcttaggaa aagtcctcag tgctgtgggc agtgcccagc tactgatgtc 180
ccagaatttc cagcagttcc ggggcctctg ttgacaaaac ttgaacctg atgccaacct 240
acgccccaca gcccaggacc tggcagggtt ctgggacctg ctacagctgt ccatcgagga 300
tatcagcatg aagttcgatg aactctacca cctcaaggcc aacagctggc agctggtgga 360
gacccccgag aagagggaag aagagaagaa accaccccct ccggtcccaa agaagccagc 420
caaatccaag ccggcagtga gccgcgacaa ggccctcagac gccagcgaca agcagcgcca 480

```

```

ggaggcccgcc aagagactcc tggcggccaa gcgggcagct tctgtgcggc agaactcagc 540
caccgagagc gcagacagca tcgagattta tgtcccgag gcccagacca ggctctgaga 600
ccatgcagga ggaaagaaac gatttttaaat cattaaaaac acaaaaacta agtgcgaacg 660
gaacagagtt ttac 675

```

<210> 181

<211> 581

<212> DNA

<213> Homo sapiens

<400> 181

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acttccggcc agatcgccgg atttccgctg agtgaccctt acaagtcctt cttgatcctg 60
aactgggtta ggtgcccgtg ttgctgctcg tgttgaatct agaaccgtag ccagacatgg 120
gactggagga cgagcaaaag atgcttaccg aatccggaga tcctgaggag gaggaagagg 180
aagaggagga attagtggat cccctaacaa cagtgcgaga gcaatgcgag cagttggaga 240
aatgtgtaaa ggcccgggag cggttagagc tctgtgatga gcgtgtatcc tctcgatcac 300
atacagaaga ggattgcacg gaggagctct ttgacttctt gcatgcgagg gaccattgcg 360
tggcccacaa actctttaac aacttgaaat aaatgtgtgg acttaattca cccagtcctt 420
catcatctgg gcatcagaat atttcttat ggtttggat gtaccatttg tttcttattt 480
gtgtaaactgt aagttcacat gaacctcatg ggtttggctt aggctggtag cttctatgta 540
attcgcaatg attccatcta aataaaagtt ctatgatctg c 581

```

<210> 182

<211> 931

<212> DNA

<213> Homo sapiens

<400> 182

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gggatctgga gcagcagctg caggatgagc tcctggagggt ggtctcagag ctccagacgg 60
ccaagaagac gtaccaggca tatcacatgg agagcgtgaa tgccgaggcc aagctccggg 120
aggccgagcg gcaggaggag aagcgggcag gtccgcacag tcgaagccac acctggtctg 180
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acagggtttt ttcatttttg tgggggctag aaaaaacata aaatgaggca gttaaataat 420
aatagttaat gaagggtgtc tacagaaaat aatctggtgt tcttgctaac tttgcccttc 480
actgttgcct aattgtgaac agccaaaagc tatatgttat ggcttattgt gtgaaggtaa 540
ctaagaagtg gtgttccatg acttcagagt acatccatgc ggagtccatt atttgagttt 600
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gggaggagg acccactg ctacacttct gatccccctt ggttttacta cccaaatcta 780
aatagatact ttgataata gataactgct cttttactaa gacatagtct ctacctatag 840
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<210> 183

<211> 1016

<212> DNA

<213> Homo sapiens

<400> 183

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cctcttgatc tggccatata tacattaaat gctattttct tcaagcagtg agacaaagct 120
gagagacgat aggttttaaag attggttaca aattctgatg aagactggtc cttgaagtct 180
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ttgctgttta atgtaagttg gtcaagggtc ttattgagca gaagaaactt gggaaatgaa 360
agcactgtta ctgggaccac agtttttgag cctctgctgt caatggaac agacacttca 420
aaaaatgctc ccacggaggc tcagaagaga tgaaaagaca ggaaaaggag ctgaaaagat 480
gaaaaaaaaa aaaaaaggaaa aaaaaggaaa atcaaggcct tctacaaaac aaaaactttg 540
gacagcatct tgattcctcc tccacctctt ccatatttag cttgagactc tttctgaaaa 600

```

```

taaaaaggag ggagttcttc cttgtcataa ttatcccatc cttagtgtaa tcaactatcca 660
aaattagtct ggaaccttct aaatcaattc catagtctct gggcaatatt ttgagaaatt 720
cgcttaatgt gacttgacag aatctctggg ctggatggta ttagagcgat tacagtagta 780
ccaacttcag gccaaagccc aaagtgtaaa aatcgtgttt ctgggctaca ttctgttatg 840
ccagagttta tatagtctg ggtaacatgt aagccttttt gaaatgaagt ctcctaggaa 900
gattgaaaac atcagcaatc ctttgatacc accagcaatc catctaccac ctgtacattt 960
tcaactaccc aatatnccan ctccttaaga gaaaggaatt tggttccctg tcacac 1016

```

<210> 184

<211> 413

<212> DNA

<213> Homo sapiens

<400> 184

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tgggtctcaac acctttcttc tgaactgtaa tacatatcac aaaaagtaca tccataattc 120
agggcaattg tcagtctttt tagagaaggg gccagggtgg aacaatccca gtgagtaaat 180
tatttctcag cgtggacttc tctgcatgtc gggcttaagg tcaccagccg ggcagggtgg 240
aaggagcttg cctctttgag aaaccaagga gtcccagtg tctgttacca tttggttatg 300
acttctaaag agccaaatgc tattccttca agcctgtttt gcaggcagaa aataccagca 360
gtgtcattta ggggttcctt tgatgatgac tactgtctgt aactgacctc agc 413

```

<210> 185

<211> 961

<212> DNA

<213> Homo sapiens

<400> 185

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acccctata tataaatata tgtaatcaat ttcttcaaat agcttgctta catgataatc 120
aattagccaa ccatgagtca tttagaatag tgataaatag aatacacaga atagtgtatg 180
aattcaattt aaaaaatcac gttagcctcc aaaccattta attcaaatga acccatcaac 240
tggatgccaa ctctggcgaa tgtaggacct ctgagtggct gtataattgt taattcaaat 300
gaaattcatt taaacagttg acaaactgtc attcaacaat tagctccagg aaataacagt 360
tatttcatca taaaacagtc cttcaaaca cacaattgtt ctgctgaaga gttgtcatca 420
acaatccaat gctcacctat tcagttgtct tgtggtcagt gtggctgcat agcagtggat 480
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aagcaaaaaa tcagccctga aatcaggcag atctgttctg tggactaaac ccacaggtta 660
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gtcggggggg acagaggggg aaggctctgc aagagctccc tggcaatacc cccttgtgtg 900
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g 961

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<210> 186

<211> 712

<212> DNA

<213> Homo sapiens

<400> 186

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acctcatgcc ggaaaattgg tcgcatgtgt agatgttatt gatcagaaca gggctttggg 120
cgatggacct tgcactcaag tgaggagaca ggccatgcct ttcagtgca tgcagctcac 180
tgatttcatc ctcaagtttc cgcacagtgc ccaccagaag tatgtccgac aagcctggca 240
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gaggaacaga ataatacaga atgaagttaa gaagcttcaa aaggcagctc tctgaaagc 420
ttctcccaaa aaagcacctg gtactaaggg tactgtctgt gctgtctgtc ctgtctgtgc 480
tgctgtctgt gctgtctgta aagttccagc aaaaaagatc accgccgcga gtaaaaaaggc 540

```

```
tccagcccag aaggttcctg cccagaaagc cacaggccag aaagcagcgc ctgctccaaa 600
agctcagaag ggtcaaaaag ctccagccca gaaagcacct gctccaaagg catctggcaa 660
gaaagcataa gtggcaatca taaaaagtaa taaaggttct ttttgacctg tc 712
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<210> 187

<211> 391

<212> DNA

<213> Homo sapiens

<400> 187

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ggaaacctct gcgccatgag agccaagtgg aggaagaagc gaatgcgcag gctgaagcgc 60
aaaagaagaa agatgaggca gaggtccaag taaaccgcta gcttggtgca ccgtggaggc 120
cacaggagca gaaacatgga atgccagacg ctggggatgc tgggtacaagt tgtgggactg 180
catgctactg tctagagctt gtctcaatgg atctagaact tcatcgccct ctgatcgccg 240
atcacctctg agacccacct tgctcataaa caaaatgccc atgttggtcc tctgcccctg 300
acctgtgaca ttctggacta tttctgtgtt tttttgtggc cgagtgtaac aaccatataa 360
taaatacacct cttccgctgt tttagctgaa g 391
```

<210> 188

<211> 717

<212> DNA

<213> Homo sapiens

<400> 188

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aacattttcc cccactcct cccttgatct ttttggtttt actttaatta agccctgcga 60
gaatgctgga taaatgcctt gaagttagca ggggtgattt ttttagcgaa tatgatttgc 120
atgtcttgcc aggagttaag cggcctctgg ggtgttgggg aaatacttta tttct*ttcca 180
tttatttttt gtggggcggg gataggggag ggcattgaag ttctacaatt ctggaatagt 240
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atctatgcgt gtcattttaa gaaaagttag agaacaagca attggcttag atatacaatc 360
tggaaaaaata ttctgtgccc catattttta tgaattgta taactgggag caaaaatata 420
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gttttccttg tttttcatca aacattttaag acaaacttag acctttctgt aaattatctt 540
ttaattttct agcaaaatct aaaaggggaa gaaaaaagtc catgaaaact aaaacttttc 600
atgttttttag ccagtgtgaa gataataaac cctgactgta gaaggtgtgt tttcatgcaa 660
actatacttc tgagcttggt aactttctaat tatactttaa taaatatatt ttattac 717
```

<210> 189

<211> 288

<212> DNA

<213> Homo sapiens

<400> 189

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caaaaagcat tgatgaaaaa gcaaaagggt atgtatgtat atgagaaaat taattgtacg 120
atatcattcc agtacgtttt gttgtacatt ttagtcttgt ttactttctc ttcatgttta 180
agaggatgag aactgtacag tttccagcta gttaccata ttagagaaga aataagagag 240
tattagaaga aaacaggaga gaaagaacat ttgtgaattg cagttgtc 288
```

<210> 190

<211> 1001

<212> DNA

<213> Homo sapiens

<400> 190

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gagagatatg tcaagtcttg tttacagaaa aagcaaagga aaccgttctc aagcgggaag 60
aaacaggcag ccaagtcgaa agaggagcta gctcaggaaa agaagaagga gctggaaaag 120
cgtctgcagg atgtcagcgg gcagctgagc agcagcaaga agcccgcccg gaaagagaag 180
cccggctcag caccctcagg gggcccgtcc aggcctcagca gcagcagctc ctccgagtct 240
gggagcagca gctccagcgg gtccagctct gacagcagtg actcagaatg aactggcttc 300
ggacagaaca ggacagatgg atgtcgcaca cgccgagact ctgccgtacc cctctgtggt 360
```

```

tcatattact aattctgttc catggtgtgc aggtctgcct cctaattcag tgttatgata 420
tcttccagtt tttgctttca taggtcagag atctatcttg tgtgtggcgt tagacttgat 480
gagaaggtgt gaactctgca gaaagtctct tcttcatcac tgaattcagt cacttgaga 540
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```

<210> 191

<211> 1644

<212> DNA

<213> Homo sapiens

<400> 191

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ctctaagaaa gcctcttttc ttaacttgat aaagcagtg aaacccattt tgcaatattg 120
ttttgtgaaa aacagggaca gacagccagg tacagagact cacacctgta ctcccaacta 180
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aaaagaaaaa tagggatagg ttttcttcc tagcccagta gagtttgacc tcattagtat 360
ggtgcttttg gtgaggaact ctctcttgat tatccactt tctagtgaac agctaaaatt 420
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ccaagaactt aggttgaatc ttag 1644

```

<210> 192

<211> 2231

<212> DNA

<213> Homo sapiens

<400> 192

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ctacttgacg ttcgagaaaag ctgtgggttca aagaagtga tccacctatc caggggtaca 120
gaaggtagta aggagcagag ctgagatttt aaacctgcat tcttttagagt agccccgttg 180
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ttcacacctt ggatcacccc tgccctccctc tctgggcttg tgtctcaatc ctctccctc 480

```

```

agggagcagg agcaggatct gtggccaggg agcacatggc ggatctgtcc caagccagac 540
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<210> 193

<211> 1155

<212> DNA

<213> Homo sapiens

<400> 193

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caggaagaaa aggaagttct ctgtaacagt agcagcagag ccagcccaaa ataacttcaa 180
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<210> 194

<211> 1528

<212> DNA

<213> Homo sapiens

<400> 194

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<210> 195

<211> 624

<212> DNA

<213> Homo sapiens

<400> 195

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<210> 196

<211> 417

<212> DNA

<213> Homo sapiens

<400> 196

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<210> 197
 <211> 328
 <212> DNA
 <213> Homo sapiens

<400> 197
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 gtggccggcc tcccctggat catgtcattc aattccagtc acctcttctg caatcatgac 240
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 cttgtaacaa taaaatctat ttaaactc 328

<210> 198
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 198
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<210> 199
 <211> 573
 <212> DNA
 <213> Homo sapiens

<400> 199
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<210> 200
 <211> 1701
 <212> DNA
 <213> Homo sapiens

<400> 200
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<210> 201

<211> 1169

<212> DNA

<213> Homo sapiens

<400> 201

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<210> 202

<211> 1975

<212> DNA

<213> Homo sapiens

<400> 202

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<210> 203

<211> 440

<212> DNA

<213> Homo sapiens

<400> 203

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<210> 204

<211> 981

<212> DNA

<213> Homo sapiens

<400> 204

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<210> 205

<211> 1615

<212> DNA

<213> Homo sapiens

<400> 205

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<210> 206

<211> 648

<212> DNA

<213> Homo sapiens

<400> 206

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<210> 207

<211> 610

<212> DNA

<213> Homo sapiens

<400> 207

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<210> 208

<211> 2454

<212> DNA

<213> Homo sapiens

<400> 208

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<210> 209

<211> 1967

<212> DNA

<213> Homo sapiens

<400> 209

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<210> 210

<211> 1682

<212> DNA

<213> Homo sapiens

<400> 210

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<210> 211

<211> 1096

<212> DNA

<213> Homo sapiens

<400> 211

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<210> 212

<211> 880

<212> DNA

<213> Homo sapiens

<400> 212

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 <212> DNA
 <213> Homo sapiens

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 <211> 1504
 <212> DNA
 <213> Homo sapiens

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<210> 215

<211> 623

<212> DNA

<213> Homo sapiens

<400> 215

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<210> 216

<211> 676

<212> DNA

<213> Homo sapiens

<400> 216

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<210> 217

<211> 1963

<212> DNA

<213> Homo sapiens

<400> 217

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<210> 218

<211> 966

<212> DNA

<213> Homo sapiens

<400> 218

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agggtgcagt gagccatgct tatgctactg caccacagcc tggggaacag agcaagatcc 960
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<210> 219

<211> 2206

<212> DNA

<213> Homo sapiens

<400> 219

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<210> 220

<211> 1373

<212> DNA

<213> Homo sapiens

<400> 220

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gactgccaa gaaagcagagg aggagattga ctctctcgt tccaatccca aaatctggaa 180
tgttcatagt gtcctcaatg tcttcattc cctggtagac aaatccaaca tcaaccgaca 240
gttgaggata tacacaagcg gagtgaccc tgagagtgtg gctggggagt atgggcggca 300
ctccctctac aaaatgcttg gttacttcag cctggtcggg cttctccgcc tgcactccct 360
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tatgtattcc cgtgtgccag agtgccagg caccacatac tattatgttg ggtttgcata 480
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```

<210> 221

<211> 982

<212> DNA

<213> Homo sapiens

<400> 221

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tagttcttcg cccctctaatt actttagttt ggtattttatt tttattatta ttaaaatttg 180
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gtttcagtta atatactaag tgctaagatt gggatgtgca caagaagcta gaggtaaaaa 480
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tatatgacca atcaaccttt gcttgttgaa gggttagtta tctagtttcc ttcttttctt 600
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cattgcataa aaagattatc atggctttca ttgcttcttg gccttttggc taaaatcaag 960
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<210> 222

<211> 1963

<212> DNA

<213> Homo sapiens

<400> 222

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<210> 223
<211> 1627
<212> DNA
<213> Homo sapiens

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<400> 223
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ccacctg 1627

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<210> 224
<211> 1868
<212> DNA
<213> Homo sapiens

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<400> 224
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acacctttcg accacaacat agtcaatttg cttaccacct gtagcaccgt gagtgagagc 480
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ctcgcgttcc gcatggagga tactgagcct taccctaac cccgatcctc tacccaacat 600
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<211> 2980

<212> DNA

<213> Homo sapiens

<400> 225

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<210> 226

<211> 1013

<212> DNA

<213> Homo sapiens

<400> 226

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<210> 227

<211> 2634

<212> DNA

<213> Homo sapiens

<400> 227

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<210> 228

<211> 2643

<212> DNA

<213> Homo sapiens

<400> 228

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cc	atg	atg	atg	atg	atg	1560
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<211> 2527

<212> DNA

<213> Homo sapiens

<400> 229

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<211> 2197

<212> DNA

<213> Homo sapiens

<400> 230

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<210> 231

<211> 1911

<212> DNA

<213> Homo sapiens

<400> 231

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<210> 232

<211> 2048

<212> DNA

<213> Homo sapiens

<400> 232

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<210> 233

<211> 2021

<212> DNA

<213> Homo sapiens

<400> 233

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<210> 234

<211> 2748

<212> DNA

<213> Homo sapiens

<400> 234

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<210> 235

<211> 1963

<212> DNA

<213> Homo sapiens

<400> 235

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<210> 236

<211> 2202

<212> DNA

<213> Homo sapiens

<400> 236

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<210> 237

<211> 1657

<212> DNA

<213> Homo sapiens

<400> 237

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<210> 238

<211> 979

<212> DNA

<213> Homo sapiens

<400> 238

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<210> 239

<211> 2193

<212> DNA

<213> Homo sapiens

<400> 239

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<210> 240

<211> 420

<212> DNA

<213> Homo sapiens

<400> 240

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<210> 241

<211> 1565

<212> DNA

<213> Homo sapiens

<400> 241

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<210> 242

<211> 1995

<212> DNA

<213> Homo sapiens

<400> 242

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<210> 243

<211> 2212

<212> DNA

<213> Homo sapiens

<400> 243

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<211> 2521

<212> DNA

<213> Homo sapiens

<400> 244

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<211> 1814

<212> DNA

<213> Homo sapiens

<400> 245

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<212> DNA

<213> Homo sapiens

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<210> 247

<211> 2254

<212> DNA

<213> Homo sapiens

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<211> 2730

<212> DNA

<213> Homo sapiens

<400> 248

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<211> 1678

<212> DNA

<213> Homo sapiens

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<211> 1595

<212> DNA

<213> Homo sapiens

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<210> 251

<211> 3548

<212> DNA

<213> Homo sapiens

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<210> 252

<211> 1850

<212> DNA

<213> Homo sapiens

<400> 252

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<210> 253

<211> 1767

<212> DNA

<213> Homo sapiens

<400> 253

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<210> 254

<211> 286

<212> DNA

<213> Homo sapiens

<400> 254

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<210> 255

<211> 1896

<212> DNA

<213> Homo sapiens

<400> 255

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<210> 256

<211> 1896

<212> DNA

<213> Homo sapiens

<400> 256

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<210> 257

<211> 1590

<212> DNA

<213> Homo sapiens

<400> 257

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<210> 258

<211> 2825

<212> DNA

<213> Homo sapiens

<400> 258

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<211> 2296

<212> DNA

<213> Homo sapiens

<400> 259

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<210> 260

<211> 1801

<212> DNA

<213> Homo sapiens

<400> 260

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<210> 261

<211> 1575

<212> DNA

<213> Homo sapiens

<400> 261

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<210> 262

<211> 1841

<212> DNA

<213> Homo sapiens

<400> 262

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<210> 263

<211> 1907

<212> DNA

<213> Homo sapiens

<400> 263


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<210> 264

<211> 697

<212> DNA

<213> Homo sapiens

<400> 264

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<210> 265

<211> 1960

<212> DNA

<213> Homo sapiens

<400> 265

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<210> 266

<211> 977

<212> DNA

<213> Homo sapiens

<400> 266

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<210> 267

<211> 2084

<212> DNA

<213> Homo sapiens

<400> 267

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<210> 268

<211> 2513

<212> DNA

<213> Homo sapiens

<400> 268

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<210> 269

<211> 1693

<212> DNA

<213> Homo sapiens

<400> 269

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<210> 270

<211> 2149

<212> DNA

<213> Homo sapiens

<400> 270

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<210> 271

<211> 1812

<212> DNA

<213> Homo sapiens

<400> 271

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<210> 272

<211> 1831

<212> DNA

<213> Homo sapiens

<400> 272

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<210> 273

<211> 1542

<212> DNA

<213> Homo sapiens

<400> 273

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<212> DNA

<213> Homo sapiens

<400> 274

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<210> 275

<211> 2507

<212> DNA

<213> Homo sapiens

<400> 275

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<210> 276

<211> 2824

<212> DNA

<213> Homo sapiens

<400> 276

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<210> 277

<211> 1829

<212> DNA

<213> Homo sapiens

<400> 277

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<210> 278

<211> 2470

<212> DNA

<213> Homo sapiens

<400> 278

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<210> 279

<211> 2057

<212> DNA

<213> Homo sapiens

<400> 279

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<210> 280

<211> 2451

<212> DNA

<213> Homo sapiens

<400> 280

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<210> 281

<211> 1874

<212> DNA

<213> Homo sapiens

<400> 281

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<210> 282

<211> 1050

<212> DNA

<213> Homo sapiens

<400> 282

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<210> 283

<211> 3384

<212> DNA

<213> Homo sapiens

<400> 283

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<210> 284

<211> 2571

<212> DNA

<213> Homo sapiens

<400> 284

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<210> 285

<211> 1861

<212> DNA

<213> Homo sapiens

<400> 285

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<211> 2153

<212> DNA

<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 290

<211> 2241

<212> DNA

<213> Homo sapiens

<400> 290

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<210> 291

<211> 1827

<212> DNA

<213> Homo sapiens

<400> 291

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<210> 292

<211> 1845

<212> DNA

<213> Homo sapiens

<400> 292

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<210> 293

<211> 1241

<212> DNA

<213> Homo sapiens

<400> 293

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<211> 1608

<212> DNA

<213> Homo sapiens

<400> 294

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<210> 295

<211> 2236

<212> DNA

<213> Homo sapiens

<400> 295

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<210> 296

<211> 748

<212> DNA

<213> Homo sapiens

<400> 296

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<210> 297

<211> 3211

<212> DNA

<213> Homo sapiens

<400> 297

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<210> 298

<211> 3479

<212> DNA

<213> Homo sapiens

<400> 298

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<210> 299

<211> 416

<212> DNA

<213> Homo sapiens

<400> 299

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<211> 259

<212> DNA

<213> Homo sapiens

<400> 300

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<210> 301

<211> 2968

<212> DNA

<213> Homo sapiens

<400> 301

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<210> 302
<211> 2023
<212> DNA
<213> Homo sapiens

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<210> 303

<211> 1746

<212> DNA

<213> Homo sapiens

<400> 303

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<210> 304

<211> 1774

<212> DNA

<213> Homo sapiens

<400> 304

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<210> 305

<211> 677

<212> DNA

<213> Homo sapiens

<400> 305

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<211> 1315

<212> DNA

<213> Homo sapiens

<400> 306

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<210> 307

<211> 950

<212> DNA

<213> Homo sapiens

<400> 307

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<210> 308

<211> 1947

<212> DNA

<213> Homo sapiens

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<210> 309

<211> 2322

<212> DNA

<213> Homo sapiens

<400> 309

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2322

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<211> 1898

<212> DNA

<213> Homo sapiens

<400> 310

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<210> 311

<211> 1808

<212> DNA

<213> Homo sapiens

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<211> 2589

<212> DNA

<213> Homo sapiens

<400> 312

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<210> 313

<211> 1757

<212> DNA

<213> Homo sapiens

<400> 313

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<211> 2377

<212> DNA

<213> Homo sapiens

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<211> 1856

<212> DNA

<213> Homo sapiens

<400> 315

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<212> DNA

<213> Homo sapiens

<400> 316

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<211> 418

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 2044

<212> DNA

<213> Homo sapiens

<400> 319

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<211> 2266

<212> DNA

<213> Homo sapiens

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<211> 1640

<212> DNA

<213> Homo sapiens

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<211> 2670

<212> DNA

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<210> 323

<211> 1914

<212> DNA

<213> Homo sapiens

<400> 323

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<210> 324

<211> 2275

<212> DNA

<213> Homo sapiens

<400> 324

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<210> 325

<211> 2029

<212> DNA

<213> Homo sapiens

<400> 325

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<210> 326

<211> 403

<212> DNA

<213> Homo sapiens

<400> 326

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<210> 327

<211> 1863

<212> DNA

<213> Homo sapiens

<400> 327

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<210> 328

<211> 1855

<212> DNA

<213> Homo sapiens

<400> 328

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<210> 329

<211> 2095

<212> DNA

<213> Homo sapiens

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<211> 2380

<212> DNA

<213> Homo sapiens

<400> 330

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<211> 1266

<212> DNA

<213> Homo sapiens

<400> 331

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<210> 332

<211> 1473

<212> DNA

<213> Homo sapiens

<400> 332

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<210> 333

<211> 2076

<212> DNA

<213> Homo sapiens

<400> 333

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<210> 334

<211> 1143

<212> DNA

<213> Homo sapiens

<400> 334

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<211> 2577

<212> DNA

<213> Homo sapiens

<400> 335

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<211> 1215

<212> DNA

<213> Homo sapiens

<400> 336

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<211> 3090

<212> DNA

<213> Homo sapiens

<400> 337

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<210> 338

<211> 2594

<212> DNA

<213> Homo sapiens

<400> 338

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2594

<210> 339

<211> 1062

<212> DNA

<213> Homo sapiens

<400> 339

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<211> 849

<212> DNA

<213> Homo sapiens

<400> 340

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<211> 2678

<212> DNA

<213> Homo sapiens

<400> 341

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<210> 342

<211> 1753

<212> DNA

<213> Homo sapiens

<400> 342

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<210> 343

<211> 2053

<212> DNA

<213> Homo sapiens

<400> 343

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<211> 1917

<212> DNA

<213> Homo sapiens

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<210> 345

<211> 512

<212> DNA

<213> Homo sapiens

<400> 345

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<212> DNA

<213> Homo sapiens

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<211> 1733

<212> DNA

<213> Homo sapiens

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<212> DNA

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<211> 908

<212> DNA

<213> Homo sapiens

<400> 351

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<210> 352

<211> 1497

<212> DNA

<213> Homo sapiens

<400> 352

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<210> 353

<211> 843

<212> DNA

<213> Homo sapiens

<400> 353

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<210> 354

<211> 2229

<212> DNA

<213> Homo sapiens

<400> 354

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<210> 355

<211> 1859

<212> DNA

<213> Homo sapiens

<400> 355

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<210> 356

<211> 1088

<212> DNA

<213> Homo sapiens

<400> 356

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<210> 357

<211> 512

<212> DNA

<213> Homo sapiens

<400> 357

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<210> 358

<211> 2488

<212> DNA

<213> Homo sapiens

<400> 358

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<210> 359

<211> 1608

<212> DNA

<213> Homo sapiens

<400> 359

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<210> 360

<211> 560

<212> DNA

<213> Homo sapiens

<400> 360

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<210> 361

<211> 2017

<212> DNA

<213> Homo sapiens

<400> 361

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2017

<210> 362

<211> 810

<212> DNA

<213> Homo sapiens

<400> 362

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<210> 363

<211> 2213

<212> DNA

<213> Homo sapiens

<400> 363

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<210> 364

<211> 522

<212> DNA

<213> Homo sapiens

<400> 364

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<210> 365

<211> 2610

<212> DNA

<213> Homo sapiens

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<210> 366

<211> 744

<212> DNA

<213> Homo sapiens

<400> 366

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<210> 367

<211> 1351

<212> DNA

<213> Homo sapiens

<400> 367

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<210> 368
 <211> 1045
 <212> DNA
 <213> Homo sapiens

<400> 368
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<210> 369
 <211> 1781
 <212> DNA
 <213> Homo sapiens

<400> 369
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1781

<210> 370

<211> 404

<212> DNA

<213> Homo sapiens

<400> 370

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tcatcagacc	tgtgcccttg	gccacaatg	atcacatttg	tctggcacag	tattttcccc	300
aatctgaaca	cagcctgtta	caatttgata	gaattgttga	aatggggagt	ttcatgacca	360
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<210> 371

<211> 1219

<212> DNA

<213> Homo sapiens

<400> 371

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<210> 372

<211> 1690

<212> DNA

<213> Homo sapiens

<400> 372

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gttggtctta	ttgccttgaa	gctgggcatg	atgcctttat	ggaccaagga	tggtaaaaag	480
catgtggtca	cattacttca	ggtacaagac	tgtcatgtct	taaaatatac	gtcaaaggaa	540
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ggactatagt gcaacctatt tgggtaaaga aaccatttgc taaaatggag aaagtaaata 1620
gatttttatt taaattacag aaacatgtta aaggccggac aaaggaaaga caataaaatc 1680
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<210> 373

<211> 297

<212> DNA

<213> Homo sapiens

<400> 373

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taccacataa aattattaca aattgcaaatt gttggatttg tgatttgatt atctgtacaa 180
agaaagaagc tctatgcagt gagtttgtgg tttaatgggc acaaaaatgt tagcactgct 240
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<210> 374

<211> 1150

<212> DNA

<213> Homo sapiens

<400> 374

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taaccaagtc 1150

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<210> 375

<211> 623

<212> DNA

<213> Homo sapiens

<400> 375

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cagatgttgg aaaagtaacca gcaaggagac tttggttact gtccctcgtgt gtactgtgag 180
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tcaggaaccc tgtatggttt ttagtttaaa ttaaaggagt cgttatcgtg gtgggaatat 600
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```

<210> 376

<211> 1108

<212> DNA

<213> Homo sapiens

<400> 376

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gacgggttca gcgcgcccct gcccggtgaa ggaccgcgct gcggtgcgga ggcatgatga 180
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<210> 377

<211> 574

<212> DNA

<213> Homo sapiens

<400> 377

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<210> 378

<211> 2235

<212> DNA

<213> Homo sapiens

<400> 378

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<210> 379

<211> 1543

<212> DNA

<213> Homo sapiens

<400> 379

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<210> 380

<211> 1087

<212> DNA

<213> Homo sapiens

<400> 380

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<210> 381

<211> 2349

<212> DNA

<213> Homo sapiens

<400> 381

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<210> 382

<211> 342

<212> DNA

<213> Homo sapiens

<400> 382

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<210> 383

<211> 295

<212> DNA

<213> Homo sapiens

<400> 383

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<210> 384

<211> 549

<212> DNA

<213> Homo sapiens

<400> 384

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tttcttaatg cgaaatgcga gtcggctttc tttccaaga ggaatcctcg gcagataaac 180
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aagagaaccc gccgagcagt caaatatcat agggccatta ctggtgcac cgtttgctgat 300
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ttataactc 549

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<210> 385

<211> 1881

<212> DNA

<213> Homo sapiens

<400> 385

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tgactgcaaa ggtacatcaa gagagtgtac acatgattga agtcacaagt aatttgatta 180
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aataaatcat aagtataagg g 1881

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<210> 386

<211> 435

<212> DNA

<213> Homo sapiens

<400> 386

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cctctctggg atgagagctc taaagcagag taagattacg ttctgatgta agctttaacc 180
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aatttaactt ttccc 435

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<210> 387
 <211> 945
 <212> DNA
 <213> Homo sapiens

<400> 387
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<210> 388
 <211> 1091
 <212> DNA
 <213> Homo sapiens

<400> 388
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<210> 389
 <211> 2026
 <212> DNA
 <213> Homo sapiens

<400> 389
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<210> 390

<211> 1974

<212> DNA

<213> Homo sapiens

<400> 390

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aggagaaggg ctctcgcgca acccaccac acgctcgtct cactcaattc aatgtcacac 1920
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<210> 391

<211> 2167

<212> DNA

<213> Homo sapiens

<400> 391

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cctcctgctc gccctcctcc tgccctactg ccagaagctc tttgtgtatg accttcacgc 180
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<210> 392

<211> 475

<212> DNA

<213> Homo sapiens

<400> 392

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ccctcccact aagaaaaattc gatcatctcc ccgagaagct aaaaaataa ggcgatctgg 180

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aaagaattca caggaagata gtgaggactc agaagacaaa gatgtgaaga ccaagaagga 240
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gggcagtgaag gaagaacaag aagaggagga tgaggcacca ttccaggaga aagattccgg 420
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<210> 393

<211> 1512

<212> DNA

<213> Homo sapiens

<400> 393

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ccccaggcca acagagagaa gatgactcag attatgtttg agaccttcaa cccccggcc 60
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gtcatggact ctggagacgg ggtcaccac acggtgcccc tctacgaggg ctacgccctc 180
ccccagcca tcctgcgtct ggacctggct ggccgggacc tgaccgacta cctcatgaag 240
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aatgagcggg tccggtgtcc ggaggcgtg ttccagcctt ccttcctggg tatggaatct 480
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gctgccgtaa cc 1512

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<210> 394

<211> 489

<212> DNA

<213> Homo sapiens

<400> 394

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aatgaggagc tgatggcctc cctggaccag ccaacacaga cagtggatgat gcaccgcact 180
gagcccactg ccagcagaa cctggctctg cagctggccg agaagctggg cagcctgggtg 240
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cagaaggacg gctaccgcaa aaacgagggc tacatgcgcc gcggtggcta ccgccagcag 360
cagtctcaga cggcctactg agctctccac tctgtttccc gcctgggcca tccaaccttg 420
aagtctctaa ccacacctca gtcactaaag gtctgtttta agttgtttct gttgattgct 480
tggtgccac 489

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<210> 395

<211> 380

<212> DNA

<213> Homo sapiens

<400> 395

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caccgcctgg ttcttcgttt acgaggtcac ctctaccaag tacactcgtg atatctataa 180
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gctctgggtt ggcattctac gtgtagcacc caagggtaac aaccagatgg cttcactgaa 300
acctgctttt gtaaattact ttttttact gttgctggaa gtgtcccacc tgctgctcat 360
aataaatgca gatgtatagc

```

<210> 396

<211> 1542

<212> DNA

<213> Homo sapiens

<400> 396

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1542

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<210> 397

<211> 1874

<212> DNA

<213> Homo sapiens

<400> 397

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<210> 398

<211> 1186

<212> DNA

<213> Homo sapiens

<400> 398

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<210> 399

<211> 2749

<212> DNA

<213> Homo sapiens

<400> 399

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<210> 400

<211> 1167

<212> DNA

<213> Homo sapiens

<400> 400

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<210> 401

<211> 1004

<212> DNA

<213> Homo sapiens

<400> 401

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<210> 402

<211> 1518

<212> DNA

<213> Homo sapiens

<400> 402

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<210> 403

<211> 869

<212> DNA

<213> Homo sapiens

<400> 403

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<210> 404

<211> 814

<212> DNA

<213> Homo sapiens

<400> 404

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gaagctctca gggcctgggc gtgatgggtc atgcctggaa tcccagccnc ttggggaggc 720
cgaggtgggt ggatcagttg aggtcagng ttcgagccc gcctgggcaa cggggcgagc 780
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<210> 405

<211> 1148

<212> DNA

<213> Homo sapiens

<400> 405

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<210> 406

<211> 878

<212> DNA

<213> Homo sapiens

<400> 406

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aatttgcatc agaagattca gtacgtagtg cgaactaaaga aggaaaatgt caggcttgct 840
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<210> 407

<211> 1832

<212> DNA

<213> Homo sapiens

<400> 407

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<210> 408

<211> 2596

<212> DNA

<213> Homo sapiens

<400> 408

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<210> 409

<211> 2368

<212> DNA

<213> Homo sapiens

<400> 409

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<210> 410

<211> 2373

<212> DNA

<213> Homo sapiens

<400> 410

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<210> 411

<211> 2334

<212> DNA

<213> Homo sapiens

<400> 411

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<210> 412

<211> 3100

<212> DNA

<213> Homo sapiens

<400> 412

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<210> 413

<211> 1121

<212> DNA

<213> Homo sapiens

<400> 413

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<210> 414

<211> 2725

<212> DNA

<213> Homo sapiens

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<210> 415

<211> 1036

<212> DNA

<213> Homo sapiens

<400> 415

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<210> 416

<211> 2599

<212> DNA

<213> Homo sapiens

<400> 416

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<210> 417

<211> 1283

<212> DNA

<213> Homo sapiens

<400> 417

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<210> 418

<211> 2446

<212> DNA

<213> Homo sapiens

<400> 418

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<210> 419
 <211> 1923
 <212> DNA
 <213> Homo sapiens

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<210> 420
 <211> 534
 <212> DNA
 <213> Homo sapiens

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<210> 421
 <211> 506
 <212> DNA
 <213> Homo sapiens

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<400> 421
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<210> 422
<211> 1109
<212> DNA
<213> Homo sapiens

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<400> 422
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<210> 423
<211> 1468
<212> DNA
<213> Homo sapiens

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<400> 423
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<210> 424

<211> 677

<212> DNA

<213> Homo sapiens

<400> 424

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<210> 425

<211> 1654

<212> DNA

<213> Homo sapiens

<400> 425

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```

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1654

<210> 426

<211> 1657

<212> DNA

<213> Homo sapiens

<400> 426

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ttttccgat tcctttttgt cattggattt gtttgttttg tcatgtggtg aatgggtgtt 180
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gttcagatac tgtggttggg ttgtctatat ttaatatgca gatttgcttg ctggaatcat 600
aatccatttt taagtgaatg taagaaatga aaactactgc atttgtgtct tttgaaggca 660
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tactgctttt ggaataatag gaagttttgt gaaatgctgg ccttgtgtat atcttagaat 1620
gcaaatttaa taaagtgtgt atacatgcat aaaattt 1657

```

<210> 427

<211> 562

<212> DNA

<213> Homo sapiens

<400> 427

```

cgataacctg tttccttgct actttgcttt ggtgtaagca gagttctttc tgtaggtttt 60
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acaatgtttg taaatattta tcttgctgct tttctagttt tgtcttctgg atttaaaatt 420
tggggcggct ggggtggaat tgcattggtt ggggaatggg agttgagctg ctgctcatta 480
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aaagtgggtg tcttgactgg gt

```

<210> 428

<211> 466

<212> DNA

<213> Homo sapiens

<400> 428

gctgtgagaa gtatccgcga cgagctatcc gggaaagggc cgaatgcgat caaacctaata 60

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ccgcgagact tgctaagggt ctgtgctaca aattgatgtt tagataaact tcagtgaat 120
gactcttcag gaattggtgc ataaggctgc ctctgttat atggacagag tagctgtatg 180
ttttgatgaa tgcaacaacc agcttccagt ttactacacc tacaagactg tggttaatgc 240
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cccggctgct tatgtacctt tcgagccaga ttcaccaccg tcattatcaa ctcattttat 420
gaaaaaatgt aatctaaagt atatccttgt tgaaaaaaa caaatt 466

```

<210> 429

<211> 859

<212> DNA

<213> Homo sapiens

<400> 429

```

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ctccaaggga aggttaggc aatgatcctg tttctacca cacttgcacc ttatcccagg 180
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ctggactttt ttcattcttt cctccacctc aaaaaatact tacacacaga ttcttcttgt 420
acaggcatca aaaccaactc ctctgcccct aaggctgtgt cctgtgggtc tccagccacc 480
cctaccccag tcaactcgccc ctctctcatc tctggaattt ggccaggcag tcccagaaga 540
ctctggagtg acctcctttg cctaaaaaagc agacagatag gcatgccccca ggccctgagt 600
gagcagagga ggactgtagg gtgagaggga aagaaaatga aggtgacttt catggaagtt 660
tcatttcttt tccccgattg taccaactgc atgtactttt ggcttggctg caaggagcaa 720
tatttggttta ctctcgtatc cttaaaaagt tacagaactg tgtcttaaga gaattattta 780
tagttactat aactgaattg acaaatgtca acttaactga taaattatat ttggtaaaat 840
aaagaggacg tttatttag 859

```

<210> 430

<211> 534

<212> DNA

<213> Homo sapiens

<400> 430

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tcaaggcaaa agtggaaacct taaagtgatc catagctgtc tttgtatgat caaaagatgc 60
acagcttttt attagtcagg aaaaggagaa agtggttttt tctggaagca aacttaaaga 120
catttcaaaa agatatacag acgatctccg atttaagatc gtttgactta agatttttca 180
actctatcat agtaccatt gcaaccaacc tgggtttcac ttttggtaca tatttggtta 240
atttatagag gtatccaata ctttattata caagtagatt tgtgttagat gattttgccc 300
aacctataga ctaatggaag tgttctgagc acatttaaga tagactaggc taggctgtgg 360
tgttccgtag gttagggtgta ttaaatgcat tttctactta gaatgtttt aacttacgat 420
gagtttattg ggatgtaacc ccaccgtaag tcaaggggca ttggtattga acctcataaa 480
acagaatgcc tttaggagat gttttcaaaa aagaaacaga aactatacca ggac 534

```

<210> 431

<211> 1038

<212> DNA

<213> Homo sapiens

<400> 431

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cacaaataga actttatcta acaaatcact ttcaaaaata acagggtcaac tgtattttaat 60
ttgtttatgt cacttataac ttacctattt ctgtatcagg aggaatgtt ttctgcttta 120
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gtacaacatg atcacccctt gttcccagga aagtgggaaa atgaagctgt acgcctttcc 480
agtctcacta atggaagggt ggaaaggaaa atggggattg ggaattacca tggatcagac 540

```

```

aaccaacagt tttgccacca gttataatta gagcagaggt cattttatat ttgaatcttt 600
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gggattacaa gcatgagcca ctgtgcctgg cacataaagc tcactataaa actgcagtc 960
taagtactta aaaatttctt cattgttggg tatctagttt tgttttcagt gctaacctaa 1020
tataaaaaaa tactacac 1038

```

<210> 432

<211> 717

<212> DNA

<213> Homo sapiens

<400> 432

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gacttggttt cttagctaga aaccagaaga ctacgggagg gaatataagg cagagaacta 60
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caacctacaa gaaaacattt acaaccagat gggtacaaat aaagtagaag ggaagatcag 180
aaaacctaaag aaatgatcat agctcctggg tactgtggac ttgatagatt tgaggtagct 240
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agcttcctgg caaccagtgg gaaaagaaac atgcgaggct gttaggaagag ggaagctctt 420
ccttggcacc tagaggaatt agccattctc ttctttattg caaaagattg aggaatgcaa 480
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gttcatccca gcagaagaaa gaagaagggt ttggggtagg attcttcaga ggtagcctg 600
gtactttctc atcagacact agcttgaagt aagaggagaa ttatgctttt ctttgctttt 660
tctacaaacc cttaaaaatc acttgtttta aaaagaaagt aaaagccctt ttcattc 717

```

<210> 433

<211> 1231

<212> DNA

<213> Homo sapiens

<400> 433

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cttttactat ctgcccgaag ctgtcctggc ttgcatcaac atctccagca tgcgccaggt 60
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gaaccaaacc taattgtcct ggtcttaagt tctgcaaccc accactccc ccagcaaaca 240
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ctgaatatatt gtaacttccc aactggtgag ggctattaca tttggtgtgt gtcccattga 360
atcaacctgt ttgtttcctt ctgtcatgct ttccacttct tcctggatca tctctcccca 420
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agagggccct gatgacatgt gtgtgatgag gaccatgacc cttgaacccc cttacctaac 1200
gtaactaata aaatgaagct gagagctttg g 1231

```

<210> 434

<211> 398

<212> DNA

<213> Homo sapiens

<400> 434

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ggctactctg cctccatcag cattttcaaa ttccaggctc tggcctttca ccgaatgcac 60
ttcccaccag tcttggtttac actgccagggt tccgctagga gctttccac ctctgcagggt 120
gcaggcctcg ctgcttctta aggcctttct ctggggtggg aggaaacgga aactgtatga 180
ttgtctttca tttcacttt tatagacct taatgtctac aatgtctgag agtggcggtt 240
gcggcatgac ttttaaaaa atgtcctgct ggtattggac cttttctgtg tttgtgaaat 300
tgctattttg tattaacaca gtatttgata aacatttata ttaagaagaa taatccctct 360
gctgaatatt attgtttcca atggagtaga aagaactt 398

```

<210> 435

<211> 551

<212> DNA

<213> Homo sapiens

<400> 435

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ctcttctccc ggtcccatct tctgagaggg cttctcagcc tggaaactat ggaaacagca 60
tcaaagagaa aggaatgtgg ggggtttccg ctgcccccca ccccagcgg cccaccccat 120
gcctcagctt catgtctgtc ccattcctat accatcccc cctgttgta tgtattatag 180
gatttgtatt ttctcctttt ttttccccc tccattcctt cttccctct ngcattcaag 240
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ctccttcttt tattattagg aaaacaacaa caacaacaaa caaaaaaatg gcgtcatgaa 420
tatgaacagc attgtcagat gaattagttg aagtggtttt tttttgttt tttttttttt 480
tttttgtact gtgcctcaa atttaatgga ttaatgtgtc ttgtatata aaaaagaaaa 540
cctctacctt c 551

```

<210> 436

<211> 664

<212> DNA

<213> Homo sapiens

<400> 436

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cantgagctg tgatccaaca actgcactcc acccggggtg gacagagtga aaccctgtct 180
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ctgcagttag ctgagatcac annactgca ctccagctgg ggcggcagag tgagactgtc 664
tcag

```

<210> 437

<211> 925

<212> DNA

<213> Homo sapiens

<400> 437

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ccatcctcc tttcagcccc ctttatgggg accaggcagc tctggaccca gccacagggg 120
ctgttagaga agcaaggcct ggagtgacct gcaccagta gcagggtcag ggttcgtgtg 180
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tgccagcagc gtctcctgtg cccaccagcc ccacaggtgc tgtgctttgt gctcttggct 360
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ccacccccct tctatctaa gggagggctg aagacaaggg gccggcattc agtggcagca 480
gaaaggagag gctccttgaa gctgctcagt cagaggcccc cgtccctcct tttgccttcc 540

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```

gcagactgaa gacctgaagg ggctggcttt tggagtgttg aggtgaatat ctgggagcag 600
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ctgcagccag gattgcctca gctcctcccc ctacaggctgg gaggatagca caggctaggg 720
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gctgtgggctt agaggatagt tggcttcctg cctctctcct ctaaaatagc aagtctggga 840
aatcctgggg tgagtggagt caccctactc ccagttgctg gcagagactg agactaaagc 900
atcanttaat aaacccccca agccc

```

<210> 438

<211> 351

<212> DNA

<213> Homo sapiens

<400> 438

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gaagggggct gccgatcatg gtgaaagggg acatttttcat tgggtcctcg tgggtccgtgt 60
cctgggtact cggggtcacc gtgcagacag ctgccctttg tctgcccggac acagtgcagg 120
cagggagagac aggttttaggg ctctgacatg gggcacaggg actccgagcc aagggatgtc 180
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gcacttttagg aggctgcagg gatcaatacc caatataccc aacaactgga attgtttaca 300
catgacctac attttgagcg gtttatcaat aaacatgtgt gaacaactgt t 351

```

<210> 439

<211> 1265

<212> DNA

<213> Homo sapiens

<400> 439

```

cgagttccta cacacacaga cacacacaca cacacacaca cacacacaca cacgggcaac 60
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cacactagct ggggtgtggtg gcgcacatct gtgggtccag ctactcaaga ggctgaggtg 180
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cgtgtctctt taaagctgct atgtgaacag cttttacagt cattaaattt acctaaacta 1260
aggtt
1265

```

<210> 440

<211> 556

<212> DNA

<213> Homo sapiens

<400> 440

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aaataaaactg tatttgcaaa tccaacattg agcttctgga ctacgctgac tccactgctg 60
aatcctcaat ggaaagggct gactgggtgc agttgaaatg acctgaaatg tagcctctgt 120
ccttgtaagt cagttgactt gccgcacatc tctttgtgta cttgtacggt actggcagaa 180
aagtcatttt tcaaaagcca taggcttttc cttgccctta gctgtaataa tgcactctgat 240
tttgatttcc tccagagctg tgtttctgtc catcacctgt gtattggccc tgtgtttacc 300

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```

actctggccc actcctcacc cccttgctcc cctggctctc tggagtttgt gacattgatt 360
tgaaatggat ggtgttctct tgagagcaag tgagattgtt agaattaagt tccaactata 420
cagttttcta acatagctat aaggctcctg ttgctgtttg tgataactga tagataactc 480
attggaaacg tgcatacatt tatattcaga tgaaattatg gtttgcactg tctattaaat 540
atctcgatta attttc                                     556

```

<210> 441

<211> 418

<212> DNA

<213> Homo sapiens

<400> 441

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cggtatattca gaaggctcatc agattgtgag actgcttctt tgaaacattt ttgtgctatt 360
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<210> 442

<211> 902

<212> DNA

<213> Homo sapiens

<400> 442

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<210> 443

<211> 553

<212> DNA

<213> Homo sapiens

<400> 443

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caaagtttga aag                                     553

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<210> 444

<211> 1230
 <212> DNA
 <213> Homo sapiens

<400> 444
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<210> 445
 <211> 715
 <212> DNA
 <213> Homo sapiens

<400> 445
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 gatcatcatt aaaaaacaag atttatacaa caattactta ggatgtttgt gatctgccga 180
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<210> 446
 <211> 1750
 <212> DNA
 <213> Homo sapiens

<400> 446
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<210> 447

<211> 1031

<212> DNA

<213> Homo sapiens

<400> 447

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<210> 448

<211> 2166

<212> DNA

<213> Homo sapiens

<400> 448

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cccagagctg cagagtgtgt tgtgccatac ctgcggctca aagggaaggc cttctatccc 420
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cagaggctcc aaaagcattc acagttgagg gggagaaaga cagaaagaag aagccaaaga 540
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aagtctggat gactgagttt tgtggacatg gcactcccgg agacagcagt ggccaccatg 660
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<210> 449

<211> 1107

<212> DNA

<213> Homo sapiens

<400> 449

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caaagggttc accaagaggg actctccttg agtaaggccc ccatacattt gggtagagagg 180
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<210> 450

<211> 2010

<212> DNA

<213> Homo sapiens

<400> 450

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<210> 451

<211> 817

<212> DNA

<213> Homo sapiens

<400> 451

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<210> 452

<211> 1112

<212> DNA

<213> Homo sapiens

<400> 452

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<210> 453

<211> 836

<212> DNA

<213> Homo sapiens

<400> 453

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<210> 454

<211> 1354

<212> DNA

<213> Homo sapiens

<400> 454

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<210> 455

<211> 1820

<212> DNA

<213> Homo sapiens

<400> 455

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<210> 456

<211> 1782

<212> DNA

<213> Homo sapiens

<400> 456

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<210> 457

<211> 2607

<212> DNA

<213> Homo sapiens

<400> 457

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<210> 458

<211> 645

<212> DNA

<213> Homo sapiens

<400> 458

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<210> 459

<211> 659

<212> DNA

<213> Homo sapiens

<400> 459

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<210> 460

<211> 1282

<212> DNA

<213> Homo sapiens

<400> 460

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<210> 461

<211> 663

<212> DNA

<213> Homo sapiens

<400> 461

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<210> 462

<211> 709

<212> DNA

<213> Homo sapiens

<400> 462

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<210> 463

<211> 309

<212> DNA

<213> Homo sapiens

<400> 463

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<210> 464

<211> 324

<212> DNA

<213> Homo sapiens

<400> 464

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<210> 465

<211> 2140

<212> DNA

<213> Homo sapiens

<400> 465

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<210> 466

<211> 2510

<212> DNA

<213> Homo sapiens

<400> 466

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<210> 467

<211> 1160

<212> DNA

<213> Homo sapiens

<400> 467

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<210> 468

<211> 1866

<212> DNA

<213> Homo sapiens

<400> 468

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<210> 469

<211> 1825

<212> DNA

<213> Homo sapiens

<400> 469

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```

<210> 470

<211> 417

<212> DNA

<213> Homo sapiens

<400> 470

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<210> 471

<211> 1080

<212> DNA

<213> Homo sapiens

<400> 471

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<210> 472

<211> 1266

<212> DNA

<213> Homo sapiens

<400> 472

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<210> 473

<211> 2748

<212> DNA

<213> Homo sapiens

<400> 473

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<210> 474

<211> 755

<212> DNA

<213> Homo sapiens

<400> 474

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ataattccag cactttggga ggccaaggca gaaggatcac ttgagaccag gagttcaaga 720
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<210> 475

<211> 630

<212> DNA

<213> Homo sapiens

<400> 475

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tgtttcccca taagtttttt taaattgtat attgtatttg tagta atatt ccaaaagaat 540
gtaaatagga aatagaagag tgatgcttat gttaagtcct aacactacag tagaaga atg 600
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<210> 476

<211> 1143

<212> DNA

<213> Homo sapiens

<400> 476

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<210> 477

<211> 2260

<212> DNA

<213> Homo sapiens

<400> 477

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<210> 478

<211> 995

<212> DNA

<213> Homo sapiens

<400> 478

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<210> 479

<211> 2803

<212> DNA

<213> Homo sapiens

<400> 479

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<210> 480

<211> 312

<212> DNA

<213> Homo sapiens

<400> 480

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<210> 481

<211> 3165

<212> DNA

<213> Homo sapiens

<400> 481

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<210> 482

<211> 620

<212> DNA

<213> Homo sapiens

<400> 482

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<210> 483

<211> 2162

<212> DNA

<213> Homo sapiens

<400> 483

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<210> 484

<211> 1737

<212> DNA

<213> Homo sapiens

<400> 484

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<210> 485

<211> 1972

<212> DNA

<213> Homo sapiens

<400> 485

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<210> 486

<211> 2015

<212> DNA

<213> Homo sapiens

<400> 486

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<210> 487

<211> 619

<212> DNA

<213> Homo sapiens

<400> 487

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<210> 488

<211> 1179

<212> DNA

<213> Homo sapiens

<400> 488

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<210> 489

<211> 2456

<212> DNA

<213> Homo sapiens

<400> 489

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<210> 490

<211> 2458

<212> DNA

<213> Homo sapiens

<400> 490

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<211> 2259

<212> DNA

<213> Homo sapiens

<400> 491

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<210> 492

<211> 1168

<212> DNA

<213> Homo sapiens

<400> 492

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<211> 1048

<212> DNA

<213> Homo sapiens

<400> 493

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<210> 494

<211> 2353

<212> DNA

<213> Homo sapiens

<400> 494

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<210> 495

<211> 2557

<212> DNA

<213> Homo sapiens

<400> 495

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<211> 2496

<212> DNA

<213> Homo sapiens

<400> 496

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<211> 2053

<212> DNA

<213> Homo sapiens

<400> 497

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<211> 2610

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<213> Homo sapiens

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<210> 499

<211> 1212

<212> DNA

<213> Homo sapiens

<400> 499

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<212> DNA
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<210> 502

<211> 562

<212> DNA

<213> Homo sapiens

<400> 502

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<211> 977

<212> DNA

<213> Homo sapiens

<400> 503

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 <212> DNA
 <213> Homo sapiens

<400> 506
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<210> 507

<211> 2477

<212> DNA

<213> Homo sapiens

<400> 507

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<211> 1308

<212> DNA

<213> Homo sapiens

<400> 508

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<210> 509

<211> 1381

<212> DNA

<213> Homo sapiens

<400> 509

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<210> 510

<211> 1514

<212> DNA

<213> Homo sapiens

<400> 510

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<210> 511

<211> 1872

<212> DNA

<213> Homo sapiens

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<211> 1195

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 514

<211> 2908

<212> DNA

<213> Homo sapiens

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<210> 515

<211> 1027

<212> DNA

<213> Homo sapiens

<400> 515

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<210> 516

<211> 2216

<212> DNA

<213> Homo sapiens

<400> 516

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<210> 517

<211> 1431

<212> DNA

<213> Homo sapiens

<400> 517

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<211> 1883

<212> DNA

<213> Homo sapiens

<400> 518

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<210> 519

<211> 693

<212> DNA

<213> Homo sapiens

<400> 519

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<211> 2024

<212> DNA

<213> Homo sapiens

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<211> 2354

<212> DNA

<213> Homo sapiens

<400> 523

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<212> DNA

<213> Homo sapiens

<400> 524

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<211> 586

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 2697

<212> DNA

<213> Homo sapiens

<400> 528

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<212> DNA

<213> Homo sapiens

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<210> 530

<211> 2833

<212> DNA

<213> Homo sapiens

<400> 530

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<210> 531

<211> 2293

<212> DNA

<213> Homo sapiens

<400> 531

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<210> 532

<211> 972

<212> DNA

<213> Homo sapiens

<400> 532

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<211> 1127

<212> DNA

<213> Homo sapiens

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<211> 1960

<212> DNA

<213> Homo sapiens

<400> 534

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<211> 1295

<212> DNA

<213> Homo sapiens

<400> 535

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<210> 536

<211> 1411

<212> DNA

<213> Homo sapiens

<400> 536

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<210> 537

<211> 1023

<212> DNA

<213> Homo sapiens

<400> 537

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<210> 538

<211> 1333

<212> DNA

<213> Homo sapiens

<400> 538

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<210> 539

<211> 1110

<212> DNA

<213> Homo sapiens

<400> 539

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<210> 540

<211> 144

<212> DNA

<213> Homo sapiens

<400> 540

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<210> 541

<211> 1069

<212> DNA

<213> Homo sapiens

<400> 541


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<210> 542

<211> 1634

<212> DNA

<213> Homo sapiens

<400> 542

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<210> 543

<211> 473

<212> DNA

<213> Homo sapiens

<400> 543

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<210> 544

<211> 642

<212> DNA

<213> Homo sapiens

<400> 544

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<210> 545

<211> 912

<212> DNA

<213> Homo sapiens

<400> 545

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gcaaagttaa aagcctacct aagcatatcg taaagctgtt caaaaataac tcagacccag 840
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<210> 546

<211> 759

<212> DNA

<213> Homo sapiens

<400> 546

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gtaccaggat gccaccgcag aagaggagga ggatttcggt gaggaggccg aagaggaggc 180
ctaaggcaga gccccatca cctcaggctt ctgattcccc ttagcctctc tactcaactg 240
cccttttctt cctccatcaga atttgtgttt gctgcctcta tcttgttttt tgttttttct 300
tctggggggg gtctagaaca gtgcctggca catagtaggc gctcaataaa tacttgtttg 360

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ttgaatgtct cctctctctt tccactctgg gaaacctagg tttctgccat tctgggtgac 420
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ccaagaagct ggggtctccag atcccattta gaaccaacca ggtgctgaaa acacatgtag 540
ataatggcca tcatcctaag cccaaagtag aaaatggtag aaggtagtgg gtagaagtca 600
ctatataagg aaggggatgg gattttccat tctaaaagtt ttggagaggg aaatccaggc 660
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<210> 547

<211> 1016

<212> DNA

<213> Homo sapiens

<400> 547

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gggccatccc tgcaccctgg tectctccca gcctctcccc cacattgtcc ctgactctag 60
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agaggccctg gctcccagg tccagccact ctccctgggg cctctggggg gagagcagct 180
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agcagcaatg cactggttcg ggagccccc tccagcctct tgtgcaaact gggcccccct 480
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<210> 548

<211> 640

<212> DNA

<213> Homo sapiens

<400> 548

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cggacgcgtg gggatgaagg tgacttggaa tatgctgtac agatggcatt aaatgaatat 60
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ctaattttaa cacttgcggg gactcagctg aaacagcttc taccaggttt gaaatgttct 180
ccctcagtg gactttcgga acccagtagt tctttcctga ggtgttgctg agtgaaaatc 240
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ctattgtatg ctcatthaag tggtagaata ttgacttttt ctctttttta tttgggataa 480
tttaaaaaat gatggatgag aaaagaaaga ttggtccggg ttaatattat cctctagtag 540
aagtgaatta ctagtttctc tttatttaga caaacacaca cacaccagat aatataaaact 600
taataaatta tctgttaatg tagattttat ttaaaaaact 640

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<210> 549

<211> 591

<212> DNA

<213> Homo sapiens

<400> 549

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gaggtgttgc agtaatcatg tcttgggtgg tctctgcac aggtgcagta gctgttaatg 60
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tattattatc atgtgcaaag tatcagtttg aggacaggta aaatcaaaat gtgtatgctc 180
tctagaaggg aaagtccta ctgaagatag ctttgcttaa atgagctcaa ttacaatgtg 240
aatgctgagg tttattgtgt tggctgtatg gtcattgagaa aatggtcatt tcttggacta 300

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```

cctgatacgg tttggctgtg tccccaccca agtcttattt tgaattgtaa tccccataat 360
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catgctgttc tcatgattgt gagttctcat gagatccaat ggttttatac atggtagtct 480
ctcctgctgc catgtaaaac atgcctgctt ccccttctgc caggattgta agtttcccga 540
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```

<210> 550

<211> 998

<212> DNA

<213> Homo sapiens

<400> 550

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gcgcacgggg ttttggccaa attggggcgag ggacacaaaat aaccacttac cccttctcac 60
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aggccttttg taaaggcttc tttgtggcgg tgccctgtggc agtgactttc ttggatcggg 180
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cccaaatat gcagaccttt gggaatataa aaatattgca cccacatgtc ttaatggggc 900
tgaatttcag attatttgtt acatatactt attatattga ttgttgggtt ttgattttgg 960
tgcttgctgc tgaaataaat tgaaaattaa tattcaat 998

```

<210> 551

<211> 837

<212> DNA

<213> Homo sapiens

<400> 551

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ggcaggtaaa cattacagta cagaagaaaag tgagtcagtg gtgggagaga ctcaaaaagc 60
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cggaaatgga gtcagagctt aaggaagaag agcgccctaaa taaactccga ctggaaagcg 180
aaggctctcc tgaaaactctt acaaaacttaa ggaaaggata cctgtttatg tataatcttg 240
tgcaattctt ggggatctcc tggatctttg tcaacctgac tgtgcgattc tgtatcttgg 300
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tgctggcagt tgtggaaaact atcaatgcag caattggagt cactacgtca ccggtgctgc 420
cttctctgat ccagcttctt ggaagaaatt ttattttgtt tatcatcttt ggcaccatgg 480
aagaaatgca gaacaaggct gtggtttctt tgtgttttat tgtggagtgc aattgaaatt 540
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tgattcagtc cattccaata ttcaatgaga ccggacgatt cagtttcaca ttgccatata 720
cagtgaatat caaagttaga ttttcctttt ttcttcagat ttatcttata atgatatttt 780
taggtttata cataaatttt cgtcaccttt ataaacagcg cagacggcgc tatggac 837

```

<210> 552

<211> 1957

<212> DNA

<213> Homo sapiens

<400> 552

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ttttttcaga atgaacttaa taattacctg ttggtttgtt gtttaattatc ctccctccct 60
tcttttgtga tgatatattg gtacaagtag acagattttac atttctggaa gcagtctctg 120
agtttacgcc ccaaggtaaa attaatctgg ccaggctctt gtttttcacc tgcacagatt 180
tcatacatca tcatatttct gattagtaag aagaggcagc cagaagtggag atacagattt 240

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tcattaggtg aggtagaatg aacatggcag aaaataggat aggacaacat atctttttat 300
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taatgtgtct tgttttaaaag cttgttaagg gtaaaaaata caggtaatat gttactcttg 420
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cattgtcagg ctgtcttaaa acagctgaac gaacagagac ttcccaacca gttctgtgat 540
gttactttgt taattgaagg agaagagtac aaagctcata aatctgtttt gtcagcaaat 600
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tgcaaaatta gttgggcacg gtggcgcatg cctgtgatcc cagctactcg ggaggctgag 1860
gcaggagaat cgcttgaacc tgggaggtgg acgttgcggt gagctgagat cacaccattg 1920
cactccagcc tgggtgacaa gagcaaaaact ccgtctc . 1957

```

<210> 553

<211> 1080

<212> DNA

<213> Homo sapiens

<400> 553

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attgctggat catnnattgt tctgttttta attctttgaa gacctcata ctgttttcca 180
tagtgactag accattttac attcccacca acaatgtaca agggttccag ttctccaca 240
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gatattacta tctcatgggt ttgatttgca tagcctagaa catttttgag tcttctgtg 360
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agttgttagg tcctggagga agtaaaaata tgtgtaacta tgggtccctg ctatatgaat 480
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gttccaccta ctaggaggc tgaggcagga ggatcacttg agcccaggaa tttgaggctg 1020
cagtgaagta cgatcacacc actgcattct agccttaagt gacagagtga gaccccaaat 1080

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<210> 554

<211> 1004

<212> DNA

<213> Homo sapiens

<400> 554

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aaatgtcttt ccttctatct gggtcctgtt aaagcgggtg tcagttgtgt cttttcacct 180
cgatttgtga attaatagaa ttggggggag aggaaatgat gatgtcaatt aagtttcagg 240
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aagaacaagt ttcagaattt tccctccact atacgactcc agtattatgt ttacaatcca 360
ttggatgagt gcagcattat aagaccttgg tgcccagaaa aatctgtcct ttttggtacc 420
aaacctgagg tcttttggaa gataatgtag aaaaccacta cctattgaag gcctgttttg 480
gctaactctg gcaaactctg atgatacctg cttatgtgga ttcttttcca cactgctttc 540
atttttaagt ataaagactt agaaaactag aataatgctt ttacaaataa ttaaaagtat 600
gtgatgttct ggggtttttt cttcttttta gaacctgtta tttaaacaag ccttcttttt 660
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tctatattta tagagtatac ataaacaaca cttcccttg agtagcacat caacatacag 900
cattgtacat tacaatgaaa atgtgtaact taagggtatt atatatataa atacatatat 960
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<210> 555

<211> 2054

<212> DNA

<213> Homo sapiens

<400> 555

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aaggtgatc tccctctctaa ttctcagggc aggttctgtt ccccatcccc ctccatgttc 180
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<210> 556

<211> 744

<212> DNA

<213> Homo sapiens

<400> 556

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atgtttttgtg catgagtagt acttgtgttg atactcctgt tgatgttaaa ttactatata 660
atataaacag tatgtgtttt tatatatcat tgtgtaaatt taatataaca tatgcagtaa 720
taaaccattt gttttactgc taag                                     744

```

<210> 557

<211> 549

<212> DNA

<213> Homo sapiens

<400> 557

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tccacgcttt gtccagaatc aactgctacc acatgagtct tcttggttaa gtcatttgag 180
cccacagtga cagaataggt ccctggatat acttctatgt agaggctcct agagatgttc 240
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agaacgcgct gggggccggc tgccggctgt ttctctaggt ggggcgcctc ccgggcaagg 420
acccccatgc agcctttggg acgctccagg gcatgccagt ccaccgacct cctcttgggc 480
ctctccagca cttctagagc cagccttgct gaacgctgca gggaacgtcg gtccacccca 540
ttcagcgct                                     549

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<210> 558

<211> 855

<212> DNA

<213> Homo sapiens

<400> 558

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cttttttttt tttttttttt tttttttaag acagttttgc tctgtcgccc aggctggagc 60
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cctcagcctc ccgagtacct gggactacag gctcccgcga ccacaccag ctaatttttt 180
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ctagcatttc tgaaggttgg tcttgagata agattgaaaa tgacagttgt tgattttctg 480
aggtaataata cccaaataaa atatatgtat gtgtacatga atctaaactg tcttcttctg 540
ttcctaattt tgctttactt aaataatctt tcatattttt taagtgtttt gccatgtgc 600
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gctttttgtg ccatgagtta gccatggtcc tggaccagc aaaaagaatg attatgatgg 720
tcagagtaag atgagcaatt gcaacataat attctctaatt attjtatact gtaaatttat 780
tcagctgccc tcgtttactc acagtgtgct tatttgccac cataagaaat ggtacaataa 840
aaattcatgt aatcg                                     855

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<210> 559

<211> 504

<212> DNA

<213> Homo sapiens

<400> 559

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gcgggcggggc ctgcacgttg actgtgggaa actcggaac aagctcacat cttcctgtgg 60
gaaaccttct agcaacagga tgagtctgca gctggcttcc acctggcagc tgccctgctgc 120
ttcctgagag cccggcctct cctccagta cttctgtttg tgcccttctg cttcccccat 180
tcccttccac agctcatagc tcgtcatctc ggcccttgtc cacactctcc aagcacatta 240
caggggacct gattgctaca cgttcagaat gcgtttgctg tcatcctgct tggcctggcc 300
aggcctggca cagccttggc ttccacgcct gagcgtggag agcacgagtt agttgtagtc 360
cggttgctgg tggggctgac ttctgtttg tttgagcccc tttttgtttt gccctctggg 420
tgttttcttt ggtcccgcag gaggtgggt ggagcaggtg gactggagtt tctcttgagg 480
gcaataaaag ttgtcatggt gtgt

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<210> 560

<211> 1236

<212> DNA

<213> Homo sapiens

<400> 560

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cttgtgtgtg tgcattggtg cagcccaaag ccaggtgag acagtcctca tatectcttg 60
agccaaactg tttgggtctc gttgcttcat ggtatggtct ggatttgtgg gaatggcttt 120
gcgtgagaaa ggggaggaga gtggttgctg cctcagccg gcttgaggac agagnctgtc 180
cctctcatga caactcagtg ttgaagccca gtgtcctcag cttcatgtcc agtggatggc 240
agaagtccat ggggtagtgg cctctcaaag gctgggcgca tcccaagaca gccagcaggt 300
tgtctctgga aacgaccaga gtttaagctc cggcttctct gctgaggggtg caccctttcc 360
tctagatggt agttgtcacg ttatctttga aaactcttgg actgctcctg aggaggccct 420
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tctcccttgc aaagcccggt tctacacaga ttccacaaat tgtgctaaga accgtccgtg 660
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cagggctggg ggagagcccg gttcattccc tgtcctcatt ggtcgtccct atgaattgta 780
cgtttcagag aaattttttt tctatgtgc aacacgaagc ttccagaacc ataaaatatc 840
ccgtcgataa ggaaagaaaa tgtcgttgtt gttgtttttn tggaaactgc ttgaaatctt 900
gtgtactat agagctcaga aggacacagc ccgtcctccc ctgcctgcct gatccatgg 960
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cagccccatt tcccaagctc tgttcaagtt aaacttatgt aagctttccg tggcatgcgg 1080
ggcgcgcacc cacgtccccg ctgcgtaaga ctctgtattt ggatgccaat ccacaggcct 1140
gaagaaactg cttgttgtgt atcagtaatc attagtggca atgatgacat tctgaaaagc 1200
tgcaataact atacaataaa ttttacaatt ctttgg

```

<210> 561

<211> 565

<212> DNA

<213> Homo sapiens

<400> 561

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tctgtcctca ttccctgccc ttcccttggg tgccatatgg aatggccatg gaatgcacga 60
agtcacaatg caccatccat gagaagacag tgaaatgatg taatgacaga gaaggcagac 120
aacatgtttc cgtgactcat ctagttagag caattatggg aaacagcttt ggtcaacatt 180
ctactttgga aagaattttg agtctagatg tggttaaatt ttgacttctg ggaaacttgg 240
tcagatgtcc ctttccactgt atgtcctctg accccttgg caaggttgcc acagctccca 300
cagcccttcc tacaagcacc tatcattggg cttgtcacac tctattgtct ttctgtcccg 360
aagatgcagt cttctctcca atgatactac caagtttag ttttctctca ccacactcaa 420
tctttttgct ccaccctgaa ttcttcacac ctaaccctga tagttaccta aagtacact 480
taaatgtttc agagtgaatg caaaaagag tngatgtact tggagtcgga tatacaattt 540
atccctaatt aaagcattta aaagg

```

<210> 562

<211> 581

<212> DNA

<213> Homo sapiens


```

<400> 562
cccacgcgtc cggccgcgaac ctgcacagcc atgcccgggc aagaactcag gacggtgaat 60
ggctctcaga tgctcctggt gttgctggtg ctctcgtggc tgccgcatgg gggcgccctg 120
tctctggccg aggcgagccg cgcaagtttc ccgggaccct cagagttgca ctccgaagac 180
tccagattcc gagagttgcg gaaacgctac gaggacctgc taaccaggct gcgggccaac 240
cagagctggg aagattcgaa caccgacctc gtcccggccc ctgcagtccg gatactcacg 300
ccagaagtgc ggctgggata cggcgggcac ctgcacctgc gtatctctcg ggccgcccct 360
cccagggggc tccccgaggg ctcgcccttc caccggggctc tgttcgggct gtccccgacg 420
gcgtcaaggt cgtgggacgt gacacgaccg ctgcggcgctc agctcagcct tgcaagaccc 480
caggcgcccg cgctgcacct ggcactgtcg ccgcccgcgt cgcagtcgga ccaactgctg 540
gcagaatctt cgtccgcacg gcccagctg gagttgcact t 581

```

```

<210> 563
<211> 1007
<212> DNA
<213> Homo sapiens

```

```

<400> 563
gaagcggatc ccgtccgagc cccggcccca agtaacgcgc ccgcccggga gccgccttgg 60
aggtccccct cccactaag tgctcttttg catagcacca gtccccaccc gcacgctctc 120
tggaacctta cagctggacg ggcaatggcg ggtcggggag ggcgagcacg acccaatgga 180
ccagctgctg ggaacaagat ctgtcaattt aagctgggtc tgctggggga gtctgcggtg 240
ggcaaatcca gcctcgctct ccgctttgtc aaggagacgt ttcacgagta ccaggagagc 300
acaattggag cggccttcct cacacagact gtctgcctgg atgacacaac agtcaagttt 360
gagatctggg acacagctgg acaggagcgg tatcacagcc tggcccccat gtactatcgg 420
ggggcccagg ctgccatcgt ggtctatgac atcaccaaca cagatacatt tgcacggggc 480
aagaactggg tgaaggagct acaggagcag gccagcccca acatcgteat tgcactcgcg 540
ggtaacaagg cagacctggc cagcaagaga gccgtggaat tccaggaagc acaagcctat 600
gcagacgaca acagtttgct gttcatggag acatcagcaa agactgcaat gaacgtgaac 660
gaaatcttca tggcaatagc taagaagctt cccaagaacg agccccagaa tgcaactggt 720
gctccaggcc gaaaccgagg tgtggacctc caggagaaca acccagccag ccggagccag 780
tgctgcagca actgagcccc ccttgccctgc ccgtgcccc cgctcctcc gcctgaatga 840
cccgaatgga atccactcta accaatcgca cttaacgact cggggcacca ctggggggggc 900
agggggaggg gtccaccatg atttctccat ataattttga tcataggccg gagtgaagtca 960
ttccacctgc acctttctgt acaaatacta attcaatttt aagtctt 1007

```

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<210> 564
<211> 946
<212> DNA
<213> Homo sapiens

```

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<400> 564
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gaacgaaaaa ttctaggcta tatacaacta cgcaaaggcc ccaacgttgt agggccctac 120
gggctactac aacccttcgc tgacgccata aaactcttca ccaaagagcc cctaaaaccc 180
gccacatcta ccatcaccct ctacatcacc gccccgacct tagctctcac catcgtctct 240
ctactatgaa cccccctccc catacccaac cccttggtca acctcaacct aggcctccta 300
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aactcaaaact acgcctctgat cggcgcactg cgagcagtag cccaaacaat ctcatatgaa 420
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accottatca caacacaaga acacctctga ttactcctgc catcatgacc cttggccata 540
atatgattta tctccacact agcagagacc aaccgaaccc ccttcgacct tgcogaaggg 600
gagtcogaac tagtctcagg cttcaacatc gaatacgccg caggccccct cgccctattc 660
ttcatagcgg aatacacaaa cattattata ataaacaccc tcaccactar aatcttcccta 720
ggaacaacat atgacgcact ctccccgtgaa ctctacacaa catattttgt caccaagacc 780
ctacttctaa cctccctggt cttatgaatt cgaacagcat acccccgatt ccgctacgac 840
caactcatac acctcctatg aaaaaacttc ctaccactca ccctagcatt acttatatga 900
tatgtctcca taccatttac aatctccagc attccccctc aancct 946

```

```

<210> 565

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<211> 426
 <212> DNA
 <213> Homo sapiens

<400> 565
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 agtgatctct actcaagtgg tcgtgatcgg gttggcagac aagaaagagg gcttccccct 120
 tctatggaaa ggggtacccc tcctccacgt gattcctaca gcagttcaag ccgcggagca 180
 ccaagaggtg gtggccgtgg aggaagccga tctgatagag ggggaggcag aagcagatac 240
 tagaaacaaa caaaactttg gaccaaatac ccagttcaaa gaaacaaaaa gtggaaacta 300
 ttctatcata actacccaag gactactaaa aggaaaaatt gtgttacttt ttttaaattc 360
 cctgttaagt tcccctccat aatttttatg ttcttgtgag gaaaaaagta aaacatgttt 420
 aatttt 426

<210> 566
 <211> 332
 <212> DNA
 <213> Homo sapiens

<400> 566
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 aagaggagaa gaggaaacac aagaagaaac gcctggtgca gagccccaat tcctacttca 120
 tggatgtgaa atgcccagga tgctataaaa taccacggt ctttagccat gcacaaacgg 180
 tagttttgtg tgttggtgc tccactgtcc tctgccagcc tacaggagga aaagcaaggc 240
 ttacagaagg atgttccttc aggaggaagc agcactaaaa gcactctgag tcaagatgag 300
 tgggaaacca tctcaataaaa cacattttgg at 332

<210> 567
 <211> 870
 <212> DNA
 <213> Homo sapiens

<400> 567
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 gagaagagaa aaatgcagga cactggctca gtagtgctt tgcatgggt tggctttggc 120
 tacgcagcac tgggtgcttc tgggtggatc attggctatg taaaagcagg cagcgtgccg 180
 tccttggtcg cagggtgct ctttggcagt ctagccggcc tgggtgctta ccagctgtct 240
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 ggaatgaggt tctaccactc tggaaaattc atgcctgcag gtttaattgc aggtgccagt 360
 ttgctgatgg tcgcaaagt tggagttagt atgttcaaca gacccatta gcagaagtca 420
 tgttccagct tagactgat aagaattaaa aatctgcatc tccactatt tccaatatat 480
 taagagaaat aagtgcagca ttttgcac tgcatttta cctaaaaaaa aagacaccaa 540
 acttggcaga gaggtggaaa atcagtcag attacaaacc tacagaggtg gcgagtatgt 600
 aacacaagag cttaataaga cctcataga gcttgattct tgtatattga tgttgtcttt 660
 tctttctgta tctgtaggta aatctcaagg gtaaaatgtt aggtgtcagc tttcagggct 720
 ctgaaaccct attccctgct ctgaggaaca gtgtgaaaaa aagtctttta ggagatttac 780
 aatatctgtt cttttgctca tcttagacca cagactgact ttgaaattat gttaagtga 840
 atatcaatga aaataaagtt tactataaat 870

<210> 568
 <211> 586
 <212> DNA
 <213> Homo sapiens

<400> 568
 gtgttttagc cttgnggntt gtaaaagaac agtaacagtc taaaggtagt ttttgattga 60
 agataggcag tagaaatacc taaaatatct gtagaaaaca taaaactgga cttcagtgtc 120
 aactagtga tctggacagg gatgttttcc attccatctg gcataacccc ttcctgagcc 180
 catggacata tctgaagcct tcctcctcac agttcagccc aggccttcca tgaacacatt 240
 tgcttggtca catctgtctt tgtctaaact ttatagcatt tcctgcttct gtcattttct 300
 gttggatact taacctttta ttaggctgtt ggtgtgtatt attctttaca gctagatctt 360

```

aaccattgg atagacatca tttttgtat tttcacacc gatcagtttt tagctgaaag 420
ctattatata taggaggccc ttaaaatata tgtaaataga ataagtattt cacaaccogt 480
ttttgaatat ttccctctct aggtttgaac ttggctcatc ttccatagcc cacatggtaa 540
tggttacaac aatcaattc tccacaagaa cacggcttga agaggt 586

```

<210> 569

<211> 822

<212> DNA

<213> Homo sapiens

<400> 569

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agctcctgca cccccaggtc ctgcagctgc ttgttaagct ttttgagact gagcactccc 60
agctggacgt gatggagcag cttgagttga agaagacact gctggacagg atggttcacc 120
tgctgagtcg aggttatgta cttcctgttg tcagttacat ccgaaagtgt ctggagaagc 180
tggaactga ctttctactc attcgctatt ttgtcactga ggtgctggac gtcattgtct 240
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caggtaccat caaacggaa ggcgagcatg accctgtgac ggagtttata gctcactgca 360
aatctaactt catcatggtg aactaattta gagcatcctc cagagctgaa gcagaacatt 420
ccagaaccog ttgtggaaaa accctttcaa gaagctgttt taagaggctc tggcagcgct 480
ttgaaaatgg gcaccgctgg gaggaggtgg atgacttctt tacaaaggaa aatggtagca 540
gcttcagtga gaaactgccc ttacaaacag tcccttctct gctgtcaatc caatactgct 600
cccaaactct gttttcagtg ttcatctccc tcaaggcagg cgctgggctc ccacgacccc 660
tcaggacaga tctggccgtc agccgcgggc cgctgggaac tccactcggg gaactccttt 720
ccaagctgac ctgagttttc tcacaagaac ccagttagct gatgttttat tgtaattgtc 780
ttaatttgc t aagaacaagt aataagtaaa tttttaaaaa gc 822

```

<210> 570

<211> 1505

<212> DNA

<213> Homo sapiens

<400> 570

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gacaagcttg gtotgtaaga acacgtgggc aggtgtgtgg gtgtctcaga ccctcgagct 60
catcccagac cctgtcccac gtcagttagc aagccacca agtcataag ggatcctgtg 120
gggtggaagg tcccgggggc ctgcttccct gttgctgggt caggcggagt gctcgaaggc 180
tgacgcacatc tggcatagc agtgccctta acgcttcttg taaaacagac atttcgcctg 240
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gctttttata tactcctgtt ttttctctcg tgagtgtgca atcgggggac agtggtgagt 360
tgctgggggtg gctgttttct gctcgtttcc tggccccttc ttccctccct tcaaccctat 420
caggggctta ctaagaaaaa aaaaaaaaca tccaagcgtg ttgcaggcag atgagcagtc 480
gcgggaatgg ctttccgggt gacatctgcc agtttggtcc ccatggcgct catcccgcg 540
gctcggaccc cagcctctct tacatcttcc ccttgatagg gaaggggtcg cagcagccca 600
cagcttcggc cggccttccg ggcttggga atcttctccg tatcgtagct cttggctcct 660
ccatataaga cataggaaca tgcctggagg caaagctcct ttctaggaga gatgccctc 720
tcttacttac ataatatgct tgggaaatta tatgtgaatt gcatttttaa aagcggactc 780
atttaaaatg tttcaaaaga ggcttgctag tcaagggact gctggcatga atcattatgg 840
aaaacaaatt aataacctc tgtcttcaga ataaatattt tgggagaaag cttggtagca 900
gagtagaaaag aaggcagcct ttggccacag agccagctaa gggttcaaat ctacacccc 960
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gctgggcgca gtgctcacgc ctgtgatttc aacactttgg aaggctgagg caagcaatca 1440
cttgaggtcn ggagttcaag accagcctgg gcaacataac aagactcatc tctgtttatan 1500
aaggt 1505

```

<210> 571

<211> 1010

<212> DNA

<213> Homo sapiens

<400> 571

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cagagaacaa gatgtgtctt atgagtcttc tttctcaata cctgccctgt ctcaaatact 60
acttgacaaa tgggtctacga tcttgacagt atccaaaaga gcctatgaaa aatggacagc 120
tgcttttgac aataatgccc ctcccaactt cccattcata gaatacataa gcgatatgtt 180
tcagaactga gagagaaaag tttacctttt attccaaatg cctcgtactc gggttaagtc 240
cagactcagg tcataaatca aagacagttt tgcacgttgc tottcaccta aatctagcag 300
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ctccctgggt tgggctggcc tggccacgtg tggtcacatg tcctgggacg tgtgtttact 420
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gtcacacatc ctggttgtat aaccaggagg tctgcagagc tgcaaccctt gaagaacatc 720
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aactgccccg gaaggggaga atctatctga aatagaaaag aagcattaag gaccagggtg 900
ggtggtctac acctataatc ccagcacttt gggaggccaa ggnangtgga tcacttaaga 960
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```

<210> 572

<211> 673

<212> DNA

<213> Homo sapiens

<400> 572

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cccaggcgcc tctagacctc agcctcagcc tcagcctcag cctcagcccc gatgtcagca 60
ctgaggcctc acccccaga gcttcccagg acattccttg cttggacagc agtgcccctg 120
agagtggcac acctatgggt gccctgggag actggcctgc ccctattgag gagcgtgaga 180
gcccggcagc ccagcccctg ctggaacacc agtactgagc tacctggcgc ccaactggacc 240
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gtggcttttg cctacatgtc tgaaccctga cctttggctg ccttggccag agtaccacaaa 360
ctgagtgcac cagacctctg acctgacccc cctgctctct tcaccccag tccagggcct 420
gggctccccg gatggaggca gtcagcctcc cagccaggcc ctaagagcca aaccatgggc 480
tgggtccact tggagcctgt ggccaggacc acctcagccc ctgggcctgc actgcctgca 540
ggtgtggccc ccttggcctg gacctggggc ctgaattgtg ggaagggtgg tttctttctt 600
tctttttttt tttttctctt tttttttttt tttttgtgct tcggagacat cagaattaat 660
aacactattt ttg 673

```

<210> 573

<211> 649

<212> DNA

<213> Homo sapiens

<400> 573

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tttaatttgt gcagaatgat aaagaatggt ccttttagaa gtgtgttatg tctgtacctg 60
tctgaagagt gacattaaac tttgaaagga cttcactgct cttttacgat attccaaata 120
gttttttaca ttggaaaaac taattcttgg gattctttca tacattttca tcaaaacttt 180
cagtgtgatt atgtattcat atcttcagtt taatatgtca gtataataga tattgttcaa 240
aagtttcttg ttgctaaagt ggtgtaatct gttacacaga tgaatagcta gatgtggaaa 300
gagatatgta aacaagaaac ctttgggtat tgtttcttaa gtaaaattgg gacaatcatg 360
gtaagcaaac ttagttctgt aactgcattt ttcaccttaa aagttaaag aaatgcatga 420
tggatattta ttccttgaat tatgcaatgc aacattttac atgtaaatag cactggtcat 480
atactgatgt atatggttat ctgggttata tctattttta tgtaaaactc attttgtttt 540
tggcaagaag tgaaattgag acttatgtgc aggttgccat tgaattttgc tctggtgaat 600
gctgagatcc agctttttct taaaaataaa tgggaccctg ttttccaat 649

```

<210> 574

<211> 840

<212> DNA

<213> Homo sapiens

<400> 574

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aatctgtagt cctacaaaac tcaggcatag aactcatttc ctttatggct ctataatgga 60
actttaccca actctcacgt tccccatgac cacagatgtg gaaaatttga atcttgacag 120
ttcaagggtga actcagtcac ttccagagtt ttcatagtc cttcaagatt gaaactcagt 180
tccgtgcaatg ttggcccctt ttctcctctt ttgtctatgc tgggagagggc attgtgggga 240
gggttgtctg gcttatggct cccattgtcc tctgcttgat aaaccacctg agctttgggtc 300
attagcagtc tccgtgtgct ttcacactca ggtagtgtct gcacaggcca ctctatgtct 360
ttccatgctg aagaaattcc ttccaggcc atgtctgtgt tcctcctgcc acacaggaaa 420
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ggtagtgaag ggagcccttt cccaagctcc cccaagagct ctagtacat cacttctgat 720
acttcttttc ccaccagctg gaagaaagaa ctttcatttg tcttgaatg agaaaaatgt 780
tcttagaata ttttgtatta ctctctgctc tgtcatttat ggtaaacaaa ataaaaataat 840

```

<210> 575

<211> 606

<212> DNA

<213> Homo sapiens

<400> 575

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gggaggtgat cggggcagga gtaaaagtga cacctcagca aagccattcg ctgtgatctc 60
tgattgtgca gtgtcatgtc ctgtcaccag agccccctcg tgtttgatgt tggccaatgc 120
cgccagcatg atctagcagg ccaaatccta atctaccatt ctctgacacc agctgggtccc 180
ctgggtcgtc caccgatgt cccccattct cccacttgg cctccccac aggtctctgg 240
caaaggaccg tgggaggcac ctgtgacact gcccttttcc tgtgcagctg tttttcttct 300
tcattctttt cactcctcgt tactcttttt ttttttact ctacgcccac aaaaaactag 360
gaactttgtt attctactta tttttctgta ctctgtctgt ttgcacacag atggatatct 420
gagagccagc gaactttctt tacctcctag tatcatttca tgaaaattag tagcacctgc 480
acaatggggc cttggagaca ggaataaaag gaaaaatctg gaatggaatc acatgacgca 540
acaggctatg aagactccct gcccggtgc tatatgtctg gtaaacagaa taaatagtag 600
ttgagc                                           606

```

<210> 576

<211> 352

<212> DNA

<213> Homo sapiens

<400> 576

```

gccactgcc ctgcctgggg gatcatactc ctgtcatagc agttgaagtt gccctctctc 60
tgccaaagtc tttcctggta tccagttgca atgagtcac ctttcttct ggggtgccac 120
agtttgttct tctgcttcag ttataccatt cagctcattc ttgttttct ttttattgga 180
attatgtgtg gacttctatc ttccaaaagc ctagaagctg agggctgggt ctttgttcat 240
ctttgtgtgc cccattgcac atggaataat acttggaata caaggccggc aacaccatac 300
aagctcagtg aatatattta tgtcatgtct caataaacta atgatatttt at 352

```

<210> 577

<211> 747

<212> DNA

<213> Homo sapiens

<400> 577

```

ctaattgagg attacagaaa gaaaaaaagc atttgtttta tttttagacg tgatctctga 60
tgtcttcaac ttttatcgtt ctgtttttta ccttagatta ttataaccag ccacctacaa 120
aatctgcaat tttctcta atgtcagcac ctgttaaaaa ggaggttgca caaacactc 180
ccatttgcag ttggaaggaa ttattatctg ctttggctctg tgaagtggaa agtcaatgtt 240
cttattcaat ctgtgtctaa tgggtgcatt ttgaggacaa tggaaaacag atcatgtttg 300
attccttaag atgtggccac tgctatttgt ggtacaattt gtgatctgag agctgcatgt 360

```

```

aaaaaacaca tgagcaaaaa gaatatccag cacacaaggg ctggctttct gattctcaga 420
ggtatagtga caacacagct tacctctgca ttcaaagaag ctagaactta ccgcggataa 480
tcattagtag aagacagctt aaagtagtgt ctgctttctg gctagggctg attcacaggt 540
gctgtgataa attcaaaaag acctgcctcc tctgatgtgc tagtatcaag ggtgagggag 600
acagttaacc aaactgggtca aaagcattgt cagcaaagac ctgggtgctga atcatgttgg 660
gaaactggag tttggagcta gagaggcaat aaccaagtat caaggtctga atgtccactt 720
tgtaaccact gtagtaataa ttgactc

```

<210> 578

<211> 791

<212> DNA

<213> Homo sapiens

<400> 578

```

gggcaccatg ccaagcactt tcatcattat ttatacatcg tcaccacacc ccctctatct 60
atgagaagta aagctgagaa aggaccagat tgaccaagcg ccagagacaa aatgtggcac 120
aacgagaacc ccagccctgt ccaggtggct ccgcgcccag ggcccaggct tagcagtgtc 180
ccctgcccta tctttgggaa aatcttgctt ttatggctct ccccccctct gccctcaaga 240
acaagggcct tgtgcgtggg ccttcccatt gctgctttcc caagaaggcc tggattcagg 300
ggagaggcct tcccagggcc actcccctta caccctccca gaggcctgag caaccctctc 360
ctgggtgggt tggggctggg gctgcctggc ggaaggacag tgagggcggc cctagccntt 420
ccaccctctt gcgcctctgc cctctcccag tcccctgtg gcttctgaaa atctcaggga 480
cagatgaggc tgagccccta gtcccctctg tgtgctttga gcctccagac tcgagggtgg 540
tactgcagg tcccagggtg aatttgaca actggcctgg ccgctcccat cctgtaagcc 600
cccaccacgg ggagaccctc atccctgcc ctgtgtggct gcgcaagtat tctgccgcc 660
tcccaccatc agccttcgcc caagggggcc ttctgcctct gcttccctcc cttctcctct 720
gtcttgccct ggcccacgca cgctgtctc gtcttccctg ttttgctgca ctacttttt 780
tatactctga c

```

<210> 579

<211> 764

<212> DNA

<213> Homo sapiens

<400> 579

```

cggacgcgtg ggtttcctag acacccttg gccacctttt tccacctggt tttccgagtg 60
agtgccatcg tcacctacgt gagctgcgac tggttcagca agagctttgt gggctgtttt 120
gtcatggtgc tgctcctcct gtccctggac ttctggctct tgaagaatgt aaccggaaga 180
ctcctggtgg gccttcgatg gtggaaccag atagatgaag atgggaagag cactggatc 240
tttgaagcca ggaaggtctc tccgaatagc attgctgcc cagaagctga agcacgaatc 300
ttctggctgg gcctcataat ctgcccctat atatggattg tgttttttt tagcacctta 360
ttttccttga agctaaagtg gctggctctg gtggttgcg ggatctctct ccaagctgca 420
aacctgtatg gtacatcct ttgtaagat ggaggcaaca gtgacattgg caaggtcaca 480
gccagtttcc tgtcccagac agtgttccag acggcctgcc caggtgactt tcagaagcct 540
ggcctcgagg ggctggagat tcaccagcat taggaactga tgaggttctc ttcttttgac 600
tgatggagat tacaaaactc ttggattcct ggaaaacaag acgacaggca tagagtgcta 660
atggcttgct tacccttga cagccctgtc ctgtgctggg gagggctgtg ttttgacagg 720
ggtggaatcc tctggctagt tccataaaaa gacctgtgtc tgtg

```

<210> 580

<211> 746

<212> DNA

<213> Homo sapiens

<400> 580

```

ccgtcttccc caaccaggag caggcccggg agctggcaaa gacgctggtt ggctgaggag 60
ccagcctagg gcttcgggtc gcggcagcgc tgaccgccat ggacaagccc ctgggtcgct 120
gcgtgggcca cgccctggag gtggaggagg cgctgctctg catggacggc gcaggcccgc 180
cagacttaag ggacctgggc accacgctcg ggggcgccct gctcggctc agcggacacg 240
cggggactca ggctcagggc gctgccggg tggccgcggc gctggacgac ggctcgcccc 300
ttggccgctt cgagcggatg ctggcggcgc agggcggtga tcccgtctg gcccgagccc 360

```

```

tgtgtctcggg aagtcctcgca gaacgcctggc agctgtctgcc tcgcgccccg gagcaggagg 420
agctgtctggc gcccgagat ggcaccgtgg agctgggtccg ggcgtctgcc ctggcgctgg 480
tgctgcacga gctcggggcc gggcgagcc gcgctgggga gccgtctccg ctgggggtgg 540
gcgcagagct gctggtcgac gtgggtcaga ggctgcgcgc tgggaacccc tggctccgcg 600
tgacccgga cggccccgcg ctccagcgcc cgcagagccg cgcctgcag gaggcgctcg 660
tactctccga ccgcgcgcca ttccgcgcc cctcgccctt cgcagagctc gttctgcgcg 720
cgcagcaata aagctccttt gccgcg 746

```

<210> 581

<211> 665

<212> DNA

<213> Homo sapiens

<400> 581

```

cccacgcgtc cggttataaaa gaggtcacat agtcgtgtgg gtcgaggatt ctgtgcctcc 60
aggaccaggg gccaccctc tgcccaggga gtccctgcgt cccatgagggt cttcccgcaa 120
ggcctctcag acccagatgt gacggggtgt gtggcccgag gaagctggac agcggcagtg 180
ggcctgctga ggccctctct tgaggcctgt gctctggggg tcccttgctt agcctgtgcc 240
tgaccagct ggccctggggg cctctgaag agaccttggc tgctcactgt ccacatgtga 300
actttttcta ggtggcagga caaatcgcg ccatttagag gatgtggctg taacctgctg 360
gatgggactc catagctcct tcccaggacc cctcagctcc ccggcactgc agtctgcaga 420
gttctcctgg aggcaggggc tgctgccttg ttccacctc catgtcaggc cagcctgtcc 480
ctgaaagaga agatggccat gccctccatt tgtaagaaca atgccagggc ccaggaggac 540
cgccctgccct gctgggacct tggctgggcc tctggttctg acactttctg ctggaagctg 600
tcaggctggg acaggctttg attttgaggg ttagcaagac aaagcaaata aatgccttcc 660
acctc 665

```

<210> 582

<211> 533

<212> DNA

<213> Homo sapiens

<400> 582

```

aaaagaaaaa ctgtaatcca tagccccagg cccaacacct gggtgtctc agctgggaac 60
ttgtttcagg tcgacttggg tttgagtcgt ggcccagaa cttcacagtt gtgtagtcac 120
ggagaagtca gttaacctca gtgaatctca gcatccagtg agaaaatcct catctccttt 180
atagggatgc tggatgtgtg cctagcacag tgccctggctt gcagacagtg tccccaaaca 240
gaaccagccc tgaataaatt gtgtgacaca caggcctcag ttcttgaaaa ggcttttagag 300
accaggcatg tggcttatgc ctataatccc agcactttga gaggtgagg ctggaggatc 360
acttgagctc aggagtttga gaccagcctg ggcagcacat tgagactttg tctctaaaaa 420
aaaaaatcaa aaaaatttagc gaggcatggt ggcacatgcc tgtggtccca gctacccctg 480
aggctgaggt gctgagaatt ccagcctggg tgacacagtg agatcttgac tct 533

```

<210> 583

<211> 952

<212> DNA

<213> Homo sapiens

<400> 583

```

ctttattcct gtaaataatt ctgtgaaaac taggagaaca gagatgagat ttgacaaaaa 60
aaaattgaat taaaaataac acagtccttt taaaactaac ataggaaagc ctttcctatt 120
atttctcttc ttagcttctc cattgtctaa atcaggaaaa caggaaaaca cagctttcta 180
gcagctgcaa aatggtttta tggcccttac atatttccat cacttgaaac aatagcttta 240
gcttgggaat ctgagatatg atcccagaaa acatctgtct ctacttcggc tgcaaaaccc 300
atggtttaaa tctatatggt ttgtgcattt tctcaactaa aaatcgagat gataatccga 360
attctccata tattcactaa tcaaagacac tattttcata ctagattcct gagacaaata 420
ctcactgaag ggcttgttta aaaataaatt gtgttttggg ctgttcttgt agataatgcc 480
cttctatttt aggtagaagc tctggaatcc ctttattgtg ctgttgctct tatctgcaag 540
gtggcaagca gttcttttca gcagattttg ccactattc ctctgagctg aagttctttg 600
catagatttg gcttaagctt gaattagatc cctgcaagg ctgtctctct gatgtcagat 660
gtaattgtaa atgtcagtaa tcacttcatt aacgctaaat gagaatgtaa gtatttttaa 720

```

```

atgtgtgtat ttcaaatttg tttgactaat tctggaatta caagatttct atgcaggatt 780
taccttcac cgtgtcatgt ttcccaaact gtgaggaggg aaggctcaga gatcgagctt 840
ctcctctgag ttctaacaaa atggtgcttt gagggtcagc ctttaggaag gtgcagcttt 900
gttgctcttt gagctttctg ttatgtgcct atcctaataa actcttaaac ac 952
<210> 584
<211> 661
<212> DNA
<213> Homo sapiens

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<400> 584
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ccacctggag gctcagtagc acaaccacca caaccggcct cagggtcaca caggggcaaac 120
gacgctcaga ctcttggcac ataagtctgg agactgctgt gggggtggca gtggctgtca 180
ctgtgctcgg aatcatgatt ttgggactga tctgcctcct cagggtggag agaggaaag 240
gtcagcagcg gactaaagcc acaacccag ccagggaacc ctccaaaac acagaggagc 300
catatgagaa tatcaggaat gaaggacaaa atacagatcc caagctaaat cccaaggatg 360
acggcatcgt ctatgcttcc cttgccctct ccagctccac ctacccaga gcacctcca 420
gccaccgtcc cctcaagagc cccagaacg agaccctgta ctctgtotta aaggcctaac 480
caatggacag cctctcaag actgaatggt gaggccaggt acagtggcgc acacctgtaa 540
tccagctac tctgaagcct gaggcagaat caagtgagcc caggagtcca gggccagctt 600
tgataatgga gcgagatgcc atctctagtt aaaaatatat taacaataaa gtaacaaatt 660
t 661

```

```

<210> 585
<211> 422
<212> DNA
<213> Homo sapiens

```

```

<400> 585
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ggccaggcca tgttatggga tctcaacgaa ggcaaacacc ttacacgct agatgggtgg 120
gacatcatca acgcccgtgt ctccagccct aaccgctact ggctgtgtgc tgccacaggc 180
cccagcatca agatctggga tttagaggga aagatcattg tagatgaact gaagcaagaa 240
gttatcagta ccagcagcaa ggcagaacca cccagtgca cctccctggc ctggtctgct 300
gatggccaga ctctgtttgc tggctacacg gacaacctgg tgcgagtgtg gcaggtgacc 360
attggcacac gctagaagtt tatggcagag ctttacaaaa aaaaaaaaaa ctggcttttc 420
tg 422

```

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<210> 586
<211> 924
<212> DNA
<213> Homo sapiens

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```

<400> 586
ggcttttctt tgtgggctca agagaaggcc atctccctga tgccatctgc atgatccatg 60
ttgagcgggt cacaccagt ccttctctgc tcttcaatgg tatcatggca ttgatctact 120
tgtgcgtgga agacatcttc cagctcatta actactacag ctccagctac tggttctttg 180
tggggctttc tattgtgggt cagctttatc tgcgctggaa ggagcctgat cgacctcgtc 240
ccctcaagct cagcgttttc ttcccgattg tcttctgcct ctgcaccatc ttccctgggtg 300
ctgttccact ttacagtgat actatcaact ccccatcgg cattgccatt gccctctcag 360
gectgccctt ttacttcttc atcatcagag tgccagaaca taagcgaccg ctttacctcc 420
gaaggtatcgt ggggtctgcc acaaggtaac tccaggctct gtgtatgtca gttgctgcag 480
aatggattt ggaagatgga ggagagatgc ccaagcaacg ggatcccaag tctaactaaa 540
caccatctgg aatcctgatg tggaaagcag gggtttctgg tctactggct agagctaagg 600
aacttgaaaa ggaaagctca cttctttgga ggcacctgtc cagaagcctg gcctaggcag 660
cttcaacctt tgaacttact ttttgaaatg aaaagtaatt tatttgtttt gctacatact 720
gttccagact tttaaagggg acaatgaagg tgactgtggg gaggagcatg tcagggtttg 780
gcttgggtgt tttagaagca cctgggtgtg cctacctact cctcttttct tttaaaagg 840
cccacaatgc tccaatttcc tgtctccttt agagagacat gaaactatca cagggtgctgg 900
atgccataaa aagtttatgt tcct 924

```


<210> 587
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 587
 cttgaggaag agtgaggggt ccaacttttc tgcttatctg ggaggtgttg ggcgcggaaca 60
 gtcgagatgt cagagaaaaa gcagccggta gacttaggtc tgttagagga agacgacgag 120
 tttgaagagt tccctgccga agactgggct ggcttagatg aagatgaaga tgcacatgtc 180
 tgggaggata attgggatga tgacaatgta gaggatgact tctctaataca gttacgagct 240
 gaactagaga aacatgggtta taagatggag acttcatagc atccagaaga agtggttgaag 300
 taacctaaac ttgacctgct taatacattc tagggcagag aaccagcat gggacactaa 360
 aaaaatgtgt ttatttcatt atctgcttgg atttatttgt gtttttgtaa cacaaaaaat 420
 aaatgttttg atat 434

<210> 588
 <211> 651
 <212> DNA
 <213> Homo sapiens

<400> 588
 gcgggcttca gcacactgag ccaagtgcct tctctgtctc acacttgctt tcaggaggcc 60
 ggcacacacag aggagagaca cataagaaaag ctcttatctg cagccagact cttcaaactg 120
 ccgccaggcc ctgaggccat gtagccaggc ccggaatggg cctctctgga caagagccac 180
 cctttcactg tgcataatgat gctgatgcaa ttctccatc atctctggac gtgcagacca 240
 gatccagaag aaaggcctgg cgtgtggcca aacagcgtga aaccttggca caggactgag 300
 gatcctctcc tccagaaaaag cccctcagag gaaataaatt agtgcggttc tctttgacct 360
 ccaaagacaa gacaagcact tatttttatt ttcagaagac aaaagaacca agatgccaac 420
 tggctgcgaa tgcctctatct ccagtctgtc tctgtgtact ggttagaggct gggaggagta 480
 gggggcagcc tgttccattt ctgatagtgc ccttgcctct ctgtctgtca tcttgcagga 540
 tgcccgaggg ccagatgggc ttagctaggg caaagtaaca gactcaagag ttattgtaca 600
 ttactgacca cgctcatttg ttcaaaagtt agaacatctg gctgcaccag g 651

<210> 589
 <211> 552
 <212> DNA
 <213> Homo sapiens

<400> 589
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 ccttattttac tagaaaaattg ttctgcccc atctacatct ccacctcacc ccatcttttc 120
 ttaagcacta tgtttggtgt tttatcagta ttatattcat tgtctttgga atacatgttc 180
 ttggttggtg ttggaaaaaaa aatctctttt accagcttgc actcggaaca acttggaaaa 240
 aaaaaagctt aaatgttttt gctatgtaca gtttaaaaaat gtgaagtttg tagctttaac 300
 tttttgtaag aaaatctaata aacactggct taagtgtctga cttgaaatgc tattttgtaa 360
 ggtttggatg taagtaatca attgaggtca gcagtttgta tgagacatag cttcctccat 420
 tgccccact ccttttttct tttttaagtt tgagatgctt cctgtgtttt tatgttagaa 480
 ttgttggtct ccttcttttc ttcttctctat acctcatcac gtttgtntta aataaactgt 540
 cctttggacc ac 552

<210> 590
 <211> 672
 <212> DNA
 <213> Homo sapiens

<400> 590
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 gatggaagag caccagttcc ggaggagcca ggcagcgaa cacaaagccc cgcagccccg 120
 ggcaggttgg gagagtccct ctgcctgcgc agcctgctg ggttgagaca gcgggatggc 180
 ccttgctgcc tggctcacga aagccccctg tgggagagcc ccaggcgccg agggcatgtg 240
 ggttggtggga agagcggttc cccacgcccc ggtgtgggtg aactcgatag aggaggggtga 300

```

caaccaccgg ggggtgcta tagtaaccac agtggccttc aaagaactca aatgaaagga 360
agacttgtag gtctctcact ttaagtccag agctagaaat gattaagcct agtgaagatg 420
tagaattttc atagctagag agaagtcaat gcttggcttc aaaacttctt tgaggaccac 480
tgcagctggg gactttaagt tacagccagt gctcattgac cactctgaaa atctcaggac 540
ccttaataat tatgcaaaat ctattctttc tgtgctctag aaatggaaca tcaactgtctg 600
ggtagacagca catctgttaa tagcatgggt tactgaatat attaatccca cttattgaga 660
cctactgctc ag 672

```

<210> 591

<211> 720

<212> DNA

<213> Homo sapiens

<400> 591

```

agcggccgct cgcgatctag acccaatgtt acagtcacgg ttggggaatt agttggagca 60
cggcttattg ctcatgcagg ttctctttta aatttgcca agcatgcagc ttctaccgtt 120
cagattcttg gagctgaaaa ggcacttttc agagccctca aatctagacg ggataccctt 180
aagtatggtc tcatttatca tgcttcactc gtgggccaga caagtcccaa acacaaagga 240
aagattttct gaatgctggc agccaaaacc gttttggcta tccgttatga tgcttttggg 300
gaggattcaa gttctgcaat gggagttgag aacagagcca aattagaggc caggttgaga 360
actttggaag acagagggat aagaaaaata agtggaacag gaaaagcatt agcaaaaaca 420
gaaaaatatg aacacaaaag tgaagtgaag acttacgac cttctgggtga ctccacactt 480
ccaacctgtt ctaaaaaacg caaaatagaa caggtagata aagaggatga aattactgaa 540
aagaaagcca aaaaagccaa gattaaagtt aaagttgaag aagagggaaga agaaaaagtg 600
gcagaagaag aagaaacatc tgtgaagaag aagaagaaaa ggggtaaaaa gaaacacatt 660
aaggaagaac cactttctga ggaagaacca tgtaccagca cagcaattgc tagtccagag 720

```

<210> 592

<211> 462

<212> DNA

<213> Homo sapiens

<400> 592

```

ctcactgctc actgcaacct ctgcctccca ggttcaagca gttctctgtc ttggcctcct 60
gagtagctgg gaccacaggc acacaccacc acgcctgggt aatttttgta tttttagtgg 120
agacagagtt tcaccatgtt gaccaggctg gcctaaaacc cctgatctca agtaatctgc 180
ctgcctcggc ctccaaagtg ctggaattac aggcgtaagc actgtgccag gccattttca 240
tgctattctt taaatttact tcctttgtaa atgaagacac tattaatcag tttaatttta 300
atgtgtccaa tagaaactaa atgctaacta togattgcat gcttaattac ttttaccttt 360
gtcttaactc tactgttcct tacctaactt tttataacta ctttctgcat ttttgcattc 420
tcattttcca cccatttttg aataataaaa gaaaataaca at 462

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<210> 593

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> linker sequence

<400> 593

gaattcggcc aaagaggcct a

21

<210> 594

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> linker sequence

<400> 594 gaattcggcc ttcattggcct a	21
<210> 595 <211> 8 <212> DNA <213> Artificial Sequence	
<220> <223> linker sequence	
<220> <221> unsure <222> (7)..(8)	
<400> 595 gaattcnn	8
<210> 596 <211> 15 <212> DNA <213> Artificial Sequence	
<220> <223> linker sequence	
<220> <221> unsure <222> (1)..(9)	
<400> 596 nnnnnnnnnnc tcgag	15
<210> 597 <211> 15 <212> DNA <213> Artificial Sequence	
<220> <223> linker sequence	
<220> <221> unsure <222> (1)..(9)	
<400> 597 nnnnnnnnng tcgac	15
<210> 598 <211> 24 <212> DNA <213> Artificial Sequence	
<220> <223> linker sequence	
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